JANUARY '60

MODERN TEXTILES

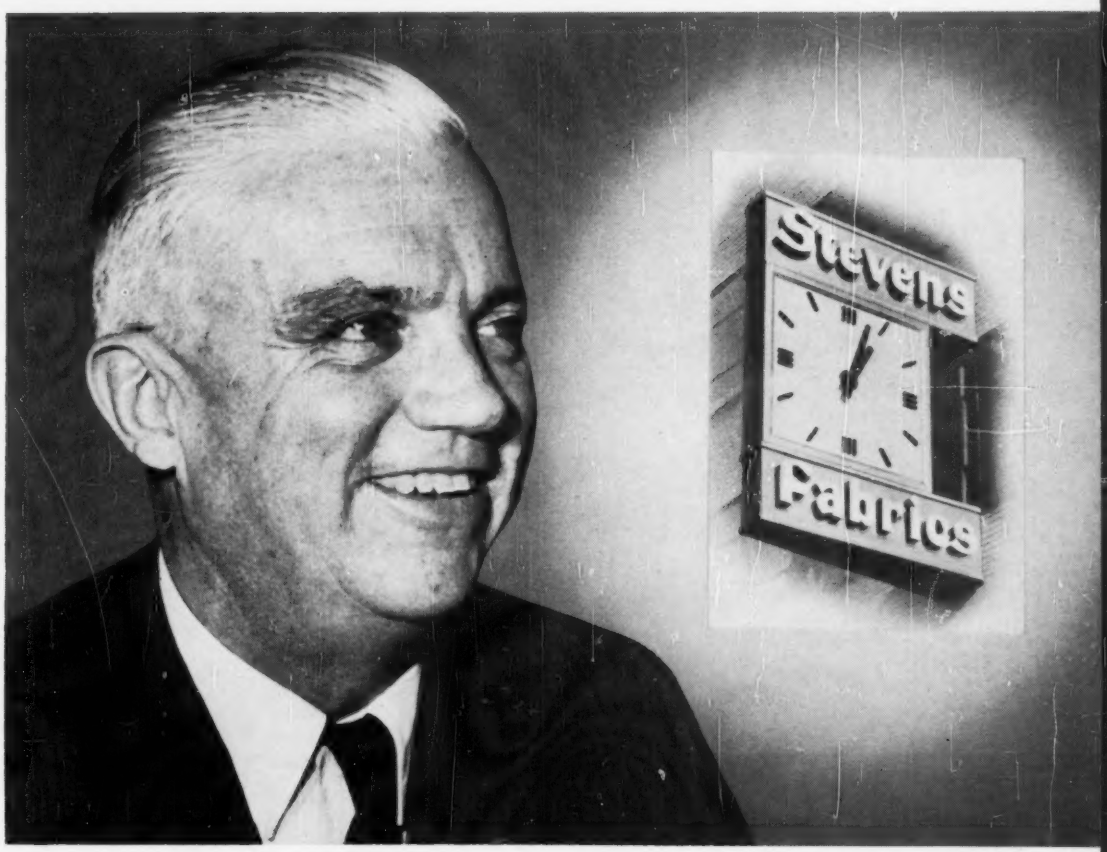
MAGAZINE

Specializing in Man-Made Fibers and Blends since 1925

FIBERS

FABRICS

FINISHES



ROBERT STEVENS— he wanted to be a textile man— story page 21

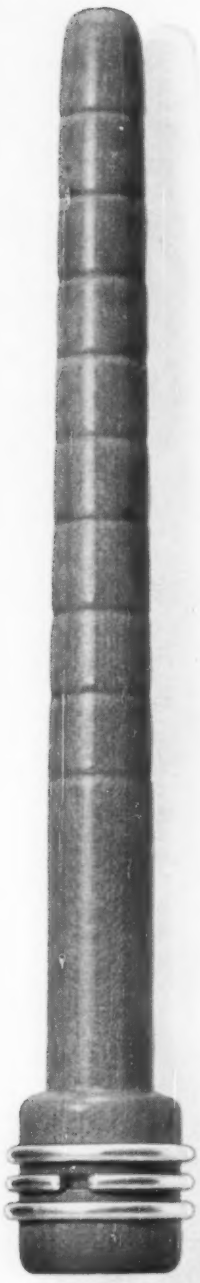
THIS MONTH'S BIG STORY —

New Fibers & Fabrics in Home Furnishings

PLUS 10 MORE USEFUL ARTICLES AND TIMELY REPORTS

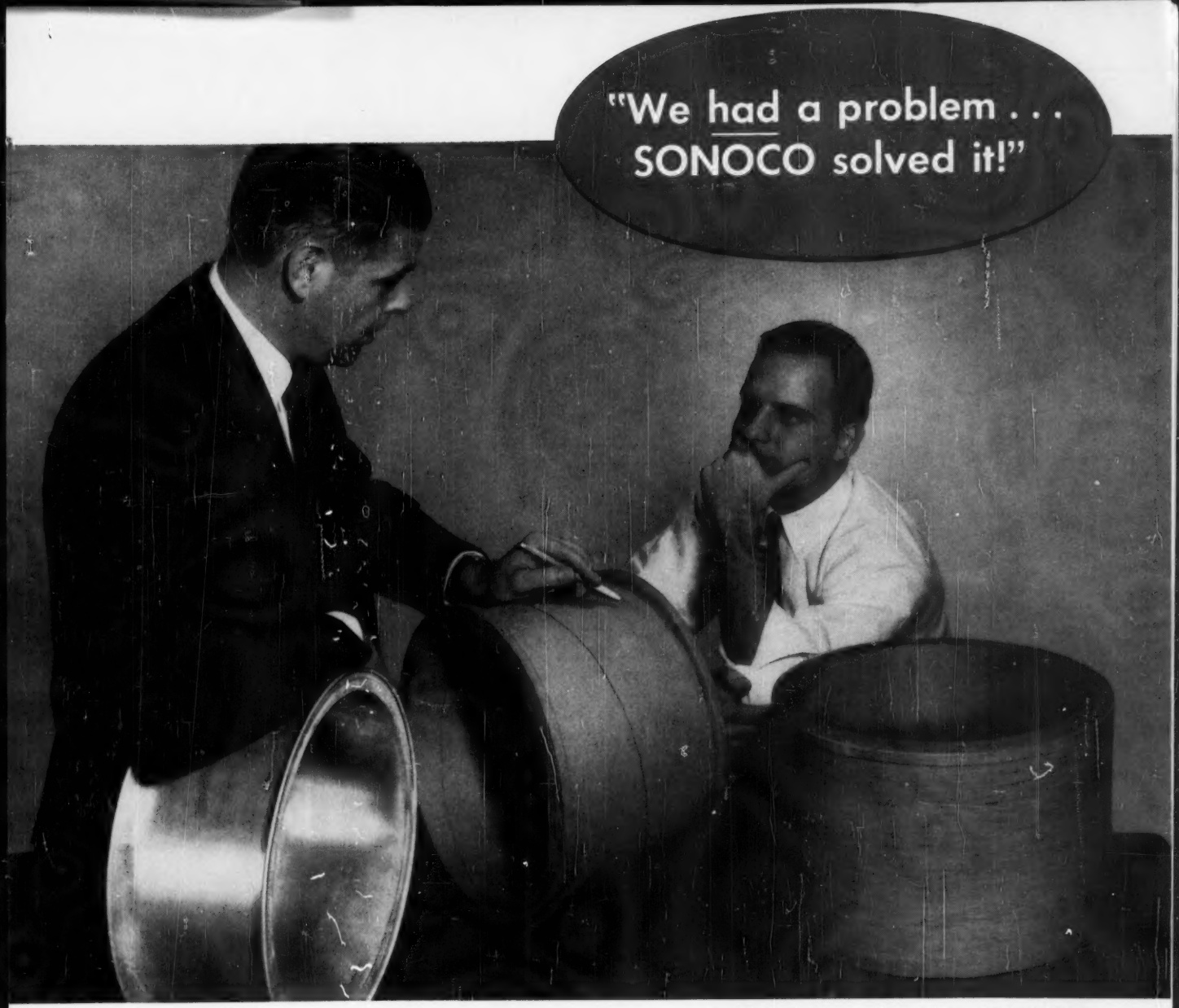
VIB

*Vacuum Impregnated Bobbin**



DRAPER CORPORATION

* *Patents Pending*



Drum filled with Ashaway's Lifeline of Dacron* polyester fiber

THE NEED: Economical storage drums for fishing lines

The manufacturer was encountering problems with metal drums being used for storing fishing lines. First, production required a large inventory of these expensive drums. And second, maintenance of the drums was both time-consuming and costly.

The solution to these problems was in an area where SONOCO experience in fibre products could be utilized to full advantage.

A new type drum was developed. It resisted the line's constrictive force! Its exceptional strength and durability permitted the drum to be used time and time again! The per-unit cost was *less than one-fourth* of the carrier it replaced! And, as a result, the manufacturer was able to drastically reduce his investment in storage drums.

Only SONOCO with 60 years' experience, plus modern research and completely integrated manufacturing facilities, could solve these problems quickly with a dependable, low cost fibre product. It is typical of countless cases where SONOCO technical and production "know-how" has benefited the industry. *Let* SONOCO *experience help you!*

**DuPont trademark*

SONOCO

Products for Textiles

SONOCO PRODUCTS COMPANY

Main Office—Hartsville, S. C. • Mystic, Conn. • Akron, Ind. • Lowell, Mass. • Phillipsburg, N. J. • Longview, Texas • Philadelphia, Pa. • La Puente, Cal. • Fremont, Cal. • Atlanta, Ga. • Granby, Quebec • Brantford, Ontario • Mexico, D. F.

1160

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The Principal Trade Groups

American Association of Textile Chemists and Colorists ..... Lowell Techn. Inst., Lowell, Mass.
American Association for Textile Technology, Inc. ..... 100 W. 55th St., New York
American Cotton Manufacturers Institute, Inc. ..... 1501 Johnston Bldg., Charlotte, N. C.
American Cotton Manufacturers Institute, Inc. Man-Made Fibers and Silk Division ..... 10 East 40th St., New York
Man-Made Fiber Producers Association ..... 350 Fifth Ave., New York
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Synthetic Organic Chemical Manufacturers Association ..... 41 E. 42nd St., New York
Textile Distributors Institute, Inc. ..... 469 Seventh Ave., New York

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MORE THAN 3½ MILLION SPINDLES NOW EQUIPPED WITH ROBERTS HIGH DRAFT

ROBERTS SPINNING NEWS

PUBLISHED BY ROBERTS COMPANY SANFORD, NORTH CAROLINA

WM-2 SANFORD, NORTH CAROLINA, U. S. A. 1959

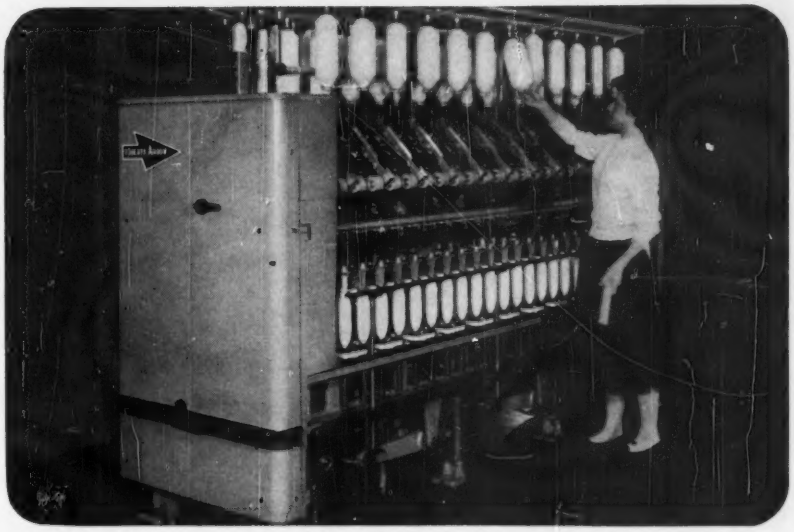
ARROW WM-2 LONG FIBER SPINNING FRAMES OFFER WIDEST YARN MAKING VERSATILITY

A dynamic program of new product design, advanced styling and aggressive merchandising is underway by all segments of the Textile Industry.

Knitting yarns of higher quality and greater interest are being called for in worsted, synthetics and blends. Finer weaving yarns up to 2 ply 80's are being called for and a great many blends are currently being explored. The longer fibers are in wide demand and the next few years should see a substantial boom in this field.

The demand for high bulk knitting yarns and the finer weaving yarns plus all of the newer fabric effects being created require fiber lengths from 3 to 8 inches long.

ARROW WM-2 frames are suitable for making yarns in any fiber length from 1½ to 8 inches. They provide great versatility in handling 100% synthetics, blends of synthetics, 100% worsteds and blends of worsted with synthetics in this range. Better quality yarns with greater evenness, bigger package sizes and higher production speeds are produced on ARROW frames.



- Spins yarn from any natural or synthetic fiber or any blend.
- PermaSet Drafting handles any fiber length from 1½ to 8 inches
- No roll setting changes needed at any time
- Great versatility for changing yarn numbers, twist, draft, ring size, and spindle speed
- Drafts as high as 24 on worsted, 60 on synthetic
- Produces yarn with better evenness and greater breaking strength
- Ball bearing top and bottom rolls eliminate all lubrication in drafting zone
- Almost ideal spinning conditions from delivery roll to spindle
- Runs at higher front roll, traveler and spindle speeds
- Reduces ends down by more than 50%
- Puts twice as much yarn on the bobbin as older frames
- 12-inch bobbins reduce winding costs
- Very rugged, most durable machine ever built for yarn spinning
- Frame is built in the wide-stance 36-inch width
- Uses ball bearings at every moving, turning or oscillating motion
- Substantially lowers electric power consumption
- AeroCreel for single or double roving
- Frame arranged for practical application of overhead cleaning and vacuum floor sweeping

Roberts ShortFlo System for Making Long Fiber Yarns

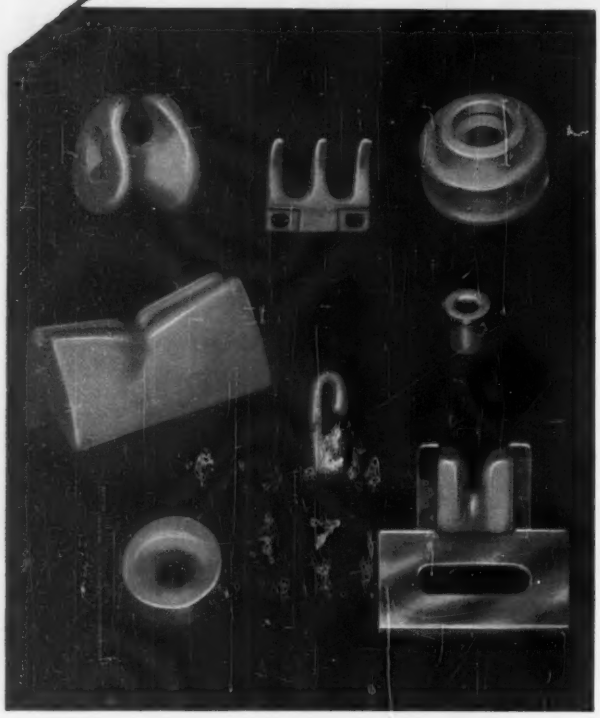
Roberts Company offers complete technical service in adapting its ShortFlo System for the production of long fiber yarns. This includes the complete yarn manufacturing process starting with tow converters, blending machines, pin drafting, roving frames, spinning frames, winders and twisters.

Where mills have existing equipment, full consideration is given to utilizing it whenever possible. Or, if a new long-fiber program is planned, all machinery can be specified, and the complete yarn organization set up.

The ShortFlo System for making long fiber yarns requires a minimum number of processes. Many doublings are provided to insure exceptionally good blending of fibers, improved evenness and better strength.

Now Available!

NEW A-70 ALUMINUM OXIDE GUIDES BY LAMBERTVILLE!



Why do A-70 Aluminum Oxide Guides LAST LONGER?

Lambertville Ceramic has developed an unique, revolutionary process in which micron-sized grains of material are fused in a manner that increases hardness, *minimizes resistance to wear.* In addition, the resulting exceptional smoothness—heretofore unknown in Aluminum Oxide Guides—diminishes friction-caused damage to the yarn. A-70 Guides can be made in practically any standard guide shape. Send for free samples, for comparison with your present guides. (Specify shapes.)

70

Aluminum Oxide

Lambertville Ceramic AND MANUFACTURING COMPANY

LAMBERTVILLE, NEW JERSEY

LAMBERTVILLE: YOUR GUIDE TO BETTER OPERATIONS!

AviSun 'Olane' Fiber

AviSun Corp. has named the fiber to be produced at its new plant at New Castle, Del., "Olane." The transparent film made from the fiber will be called "Olefane." The New Castle plant is expected to get into production early in 1960. AviSun is jointly owned by American Viscose Corp. and Sun Oil Co. The New Castle facility includes a pilot plant for producing polypropylene fiber. AviSun also plans a $50,000,000 capital investment within the next five years for another plant on a site yet to be selected.

Trade Group Meets

Members of the board of managers of the Trade Relations Council were elected at the annual membership meeting in New York. Reelected as board members were: James A. Ashley, Libbey Owens Ford Glass Co.; Ralph A. Butland, John P. Maguire & Co.; George R. Drysdale, Phelps Dodge Corp., and Albert F. Metz, The Okonite Co. Newly-elected to the board were: James P. Gill, Vanadium-Alloys Steel Co.; Carles F. Roby, The Heald Machine Co.; Edwin Wilkinson, National Association of Wool Manufacturers, and Felix E. Wormser, St. Joseph Lead Co.

1958 Finished Goods Figures

A total of 9,232 million linear yards of cotton, silk, and manmade fiber fabrics was finished during 1958, according to the U.S. Commerce Department. This was 6% less than the 1957 figure. Cotton fabrics finished last year amounted to 7,238 million linear yards, 6% less than in 1957, while the 1,994 million yards of silk and manmade fiber goods was 4% less than in 1957.

To Make Hepworth Looper

Scott & Williams, Inc., has completed the transfer of machines, tools and fixtures, patterns, inventories, and related equipment from John W. Hepworth & Co., Philadelphia, Pa. to the Scott & Williams plant at Laconia, N. H. Plans have been completed for Scott & Williams to continue manufacturing and servicing of Hepworth loopers.

A spokesman for Scott & Williams said the company will not only continue to supply and service former Hepworth customers, but will place added facilities, research and experience at their disposal. He added further that Scott & Williams will try to do everything possible to retain the goodwill of all Hepworth Looper users by means of competent service and friendly customer relations.

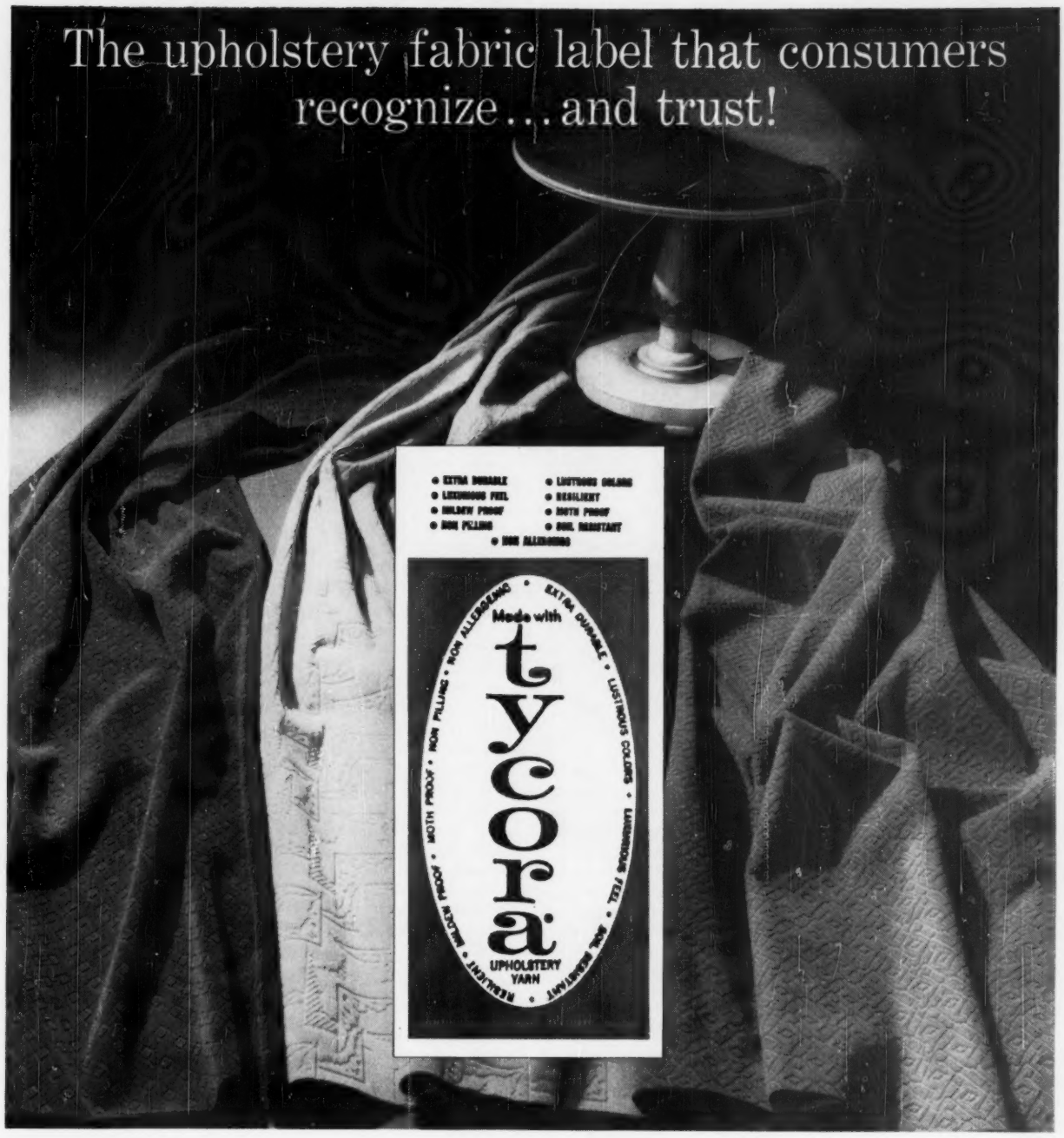
Further information about Hepworth Loopers may be obtained by writing Scott & Williams at its main office in Laconia, or its general sales office in the Empire State Building, New York City, or branch offices in Reading, Pa., High Point, N. C., and Chattanooga, Tenn.

New Celanese Quarters

Celanese Corp. of America has leased eight entire floors in the Morgan Guaranty Trust Co. of New York's new 23-story building under construction at 522 Fifth Ave. Celanese a producer of fibers, chemicals and plastics, has taken a 20-year lease providing for more than 200,000 square feet of office space.

Celanese plans to move its executive offices into the new quarters around mid-1961. It has leased the fourth through eleventh floors and plans initially to occupy six floors and sublease two. Present Celanese headquarters are at 180 Madison Ave., New York, and in an adjoining building at 16 East 34 Street, where about 600 of the company's executive, administrative, marketing and sales personnel are located.

The upholstery fabric label that consumers recognize... and trust!



And—no wonder! They know Tycora® stands for prestige and quality in apparel and home furnishings. They see the name everywhere. The Tycora® label is on the finest knitwear. Merchandise made of Tycora® yarn is featured in better stores across the country. Naturally, upholstery fabrics, half hose or sportswear of Tycora® mean instant consumer recognition... and consumer confidence.

Enka nylon gives Tycora® a new color story. This different nylon has better absorbency which means deeper dyeing... so ideal for interesting, new cross-dye effects. The perfect combination for decorative fabrics *or* apparel—Tycora® yarn of continuous filament textured Enka nylon.

• Extra Durable • Luxurious Feel • Resilient
• Mildew Proof • Lustrous Colors • Non Pilling
• Moth Proof • Soil Resistant • Non Allergenic

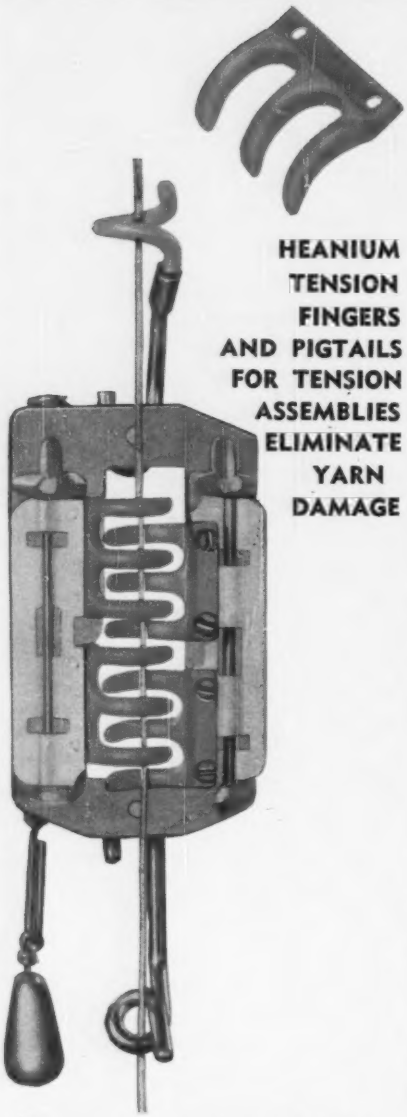
Tycora is the registered Trademark of Textured Yarn Company, Inc., 40 East 34th St., New York

So many good things begin with

ENKA NYLON

American Enka Corporation, 530 Fifth Ave., New York 36, N. Y.
New York • Chattanooga • Greensboro • Providence. Producer of rayon • nylon • yarns • fibers

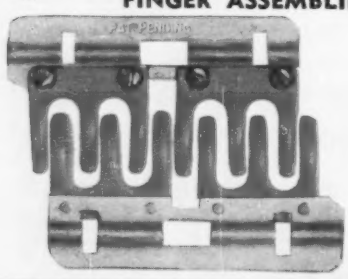
try HEANIUM®



HEANIUM TENSION FINGERS AND PIGTAILS FOR TENSION ASSEMBLIES ELIMINATE YARN DAMAGE

If guide wear is a problem in your mill . .

try HEANIUM T-3-F FINGER ASSEMBLIES



HEANY INDUSTRIAL CERAMIC CORP.
NEW HAVEN 8, CONNECTICUT

Southern Representatives: R. L. Carroll, P. O. Box 1676, Greenville, S. C.

R. W. Jacoby Dies

Raymond W. Jacoby

Raymond W. Jacoby, Dyeing and Finishing Editor of this magazine, died suddenly on Dec. 14. He was 70. He became affiliated with Modern Textiles Magazine several years ago after his retirement from the Ciba Co. Jacoby was a past president of the American Association of Textile Chemists & Colorists and a recipient of the Olney Medal.

Roberts' Business Good

Roberts Co., Sanford, N. C., manufacturers of Arrow spinning equipment, reported recently that its backlog of orders had reached a record high of more than $4 million. According to R. E. Pomeranz, president this total covers shipments to be made by mid-1960 and is greater than sales for all 1957. Pomeranz also stated that both actual sales and inquiries for new equipment or machinery modernization are coming with greater frequency and that Roberts' foreign operations are progressing rapidly.

Zefran Output Rising

Output of Zefran, a modified acrylic fiber, at Dow Chemical Co.'s plant in Williamsburg, Va., will increase to about 15 million pounds annually, with tentative plans providing for doubled plant capacity by 1962. Carl A. Gerstacker, Dow vice president, said that while small quantities of Zefran have been available commercially the amount is being steadily increased.

Morningstar Expands

An expanded Textile Department to encompass all products sold to the textile industry has been set up by Morningstar-Paisley, Inc. Lee Kritzer, with headquarters in Charlotte, N. C., is manager of the new department. Morningstar-Paisley textile products cover a complete line of specialty starch products for sizing, printing and finishing operations.

Recent Whitin Sales

Whitin Machine Works recently sold 27 12x6½ roving frames to Cone Mills. Twelve of the frames have been installed at Cone's Edna plant at Reidsville, and 15 assigned to Revolution Mill in Greensboro, N. C.

Inman Mills has purchased Whitin axi-feed and axi-flo equipment for its opening room at the Saybrooke Division in Inman, S. C. The firm also purchased 4 14x6½ Whitin roving frames for the Inman Division.

More Unifils Ordered

Amerotron Co., a division of Textron, Inc., which operates a number of mills, recently announced that it has placed an order with Leesona Corp. for 3,200 additional Unifil loom winders. R. M. Cushman, executive vice president of Amerotron, said that his company has been able to run more fabrics through the use of Unifil and has obtained use of more floor space by elimination of conventional filling equipment.

Polymer Chemistry Center

The Camille and Henry Dreyfus Foundation has made a grant of $2,500,000 for the establishment of an international center for polymer chemistry at Research Triangle Institute, North Carolina. The new chemistry facility will be known as the Camille Dreyfus Laboratory, in memory of Dr. Camille Dreyfus who was the founder and first president of Celanese Corp. of America.

Ban-Lon Expansion Plans

Plans for expanded operating facilities and an increase in activities of the research, quality control and marketing divisions highlight the 1960 forecast for the Joseph Bancroft & Sons Co. "Ban-Lon" program. The program will include a new laboratory, additional personnel and a sharp rise in trade and consumer advertising schedules.

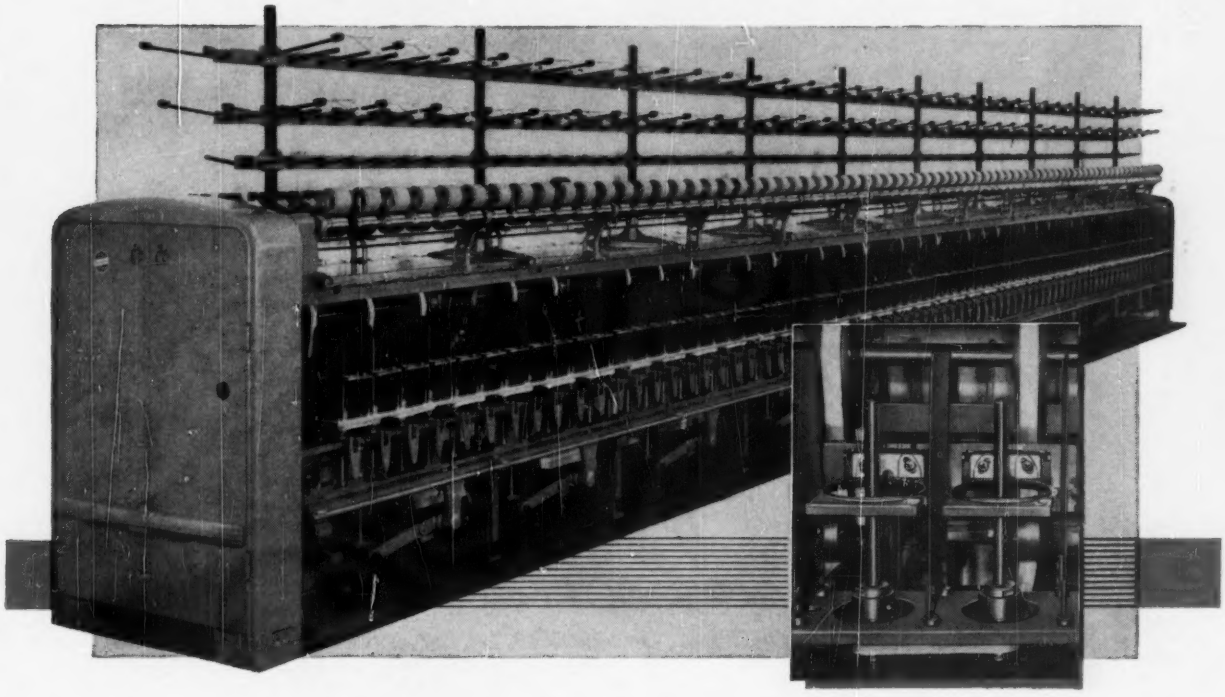
New Burlington Division

E. A. Hamrick, Jr., has been appointed president of Burlington Yarn Co., newly-formed division of Burlington Industries, Inc. J. T. McLoud was named executive vice president for sales and Arthur Burnet executive vice president for manufacturing. The new division will include manufacturing and sales operations for Burlington plants which produce manmade, cotton, blended and specialty yarns for the weaving, knitting, insulating and industrial trades.

Introducing

the PACEMAKER* P-3

A NEW Twister for highest possible production on low twist synthetic yarns



The new Whitin "PACEMAKER" Model P3 Ring Twister has many unique features which provide for maximum twisting efficiency and lowest possible cost. It is capable of operating at exceedingly high speeds which makes it especially attractive for mills processing low twist synthetic yarns. This is definitely *the* twister for forward looking, profit-minded mills!

Examine these outstanding features — many of them exclusive with Whitin:

- ★ **Head end — entire gear train mounted on antifriction bearings — laminated bakelite gears combined with metal gears for quiet operation**
- ★ **Feed rolls — 3" or 4" dia. boss type-hardened steel, heat treated, with chromium plated finish, mounted in grease packed ball bearings**
- ★ **Top rolls — aluminum cot with cork or Accotex covering**
- ★ **Spindle drive — 4-spindle group drive — steel pulleys on ball bearing mounted through shafts — Whitin-SKF b. b. tape tension pulleys**
- ★ **Stationary bottom plate over spindles — insures yarn cleanliness and supports full length separators**
- ★ **Ring rail construction — magnesium rail supporting ring holders having Whitin patented Micrometer adjustment**
- ★ **Rings — up to 5", choice of several auto-lubricated types**
- ★ **Spindles — latest Whitin SUPASONIC, HZ 55 or 66, depending upon bobbin weight — either internal or external brake — an outstanding new development in spindle design**
- ★ **Winds — square bottom differential taper top, square bottom taper with straight builder, and P-1 differential double taper wind on straight pirn**

*TRADEMARK

These are only a few of the many features. For complete information, ask your Whitin representative, or write to —

WHITIN MACHINE WORKS

WHITINSVILLE, MASSACHUSETTS

CHARLOTTE, N. C. • GREENSBORO, N. C. • ATLANTA, GA. • SPARTANBURG, S. C. • DEXTER, ME.

Beautiful Tricot Fabrics

AT 800 COURSES PER MINUTE

Wire Products Division

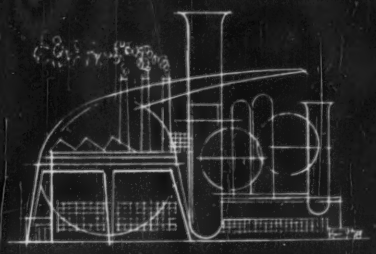
TEXTILE MACHINE WORKS • READING • PENNA.

Builders of Textile Machinery Since 1900

The "READING" *Tricot Machine*

FOR THE GROWING SCIENTIFIC ERA IN TEXTILES

BEAUNIT BLUEPRINTS A PROGRAM OF PROGRESS



WITH THESE TECHNOLOGICALLY ADVANCED FIBERS AND YARNS

Polyester Fiber

VYCRON* Staple
VYCRON Tow for Pacific Converters
VYCRON Tow for Direct Spinners
VYCRON Direct Spun Yarn
VYCRON Special Textured Yarns
VYCRON Continuous Filament Yarn

Cuprammonium Rayon Yarn

BEMBERG® Filament
CUPIONI® Thick and Thin Filament
CUPRACOLOR* Solution-Dyed Filament
CUPERSIL* Special Textured Yarn
MULTI-CUPIONI* Thick and Thin Filament
PARFE® Intermittently Colored Filament
FLAIKONA® Filament Flake Yarn
STRATA* Thick and Thin Filament
MULTI-STRATA* Torpedo Slubbed Filament
GLITTER* Spatter Sparkle-effect Filament
MEASLE* Part Tight, Part Loose Filament
DREAM SLUB* Torpedo Slubbed Filament

Viscose Rayon

COMISO® High Strength Tow
NARCON® High Strength Tow and Staple
NARCO® Yarn
NARCO® Tow
HI-NARCO® Medium Tenacity Filament
SUPER-NARCO® High Strength Filament
NARENE® Yarn
Viscose Rayon Industrial Yarns

Specialized Tire Yarn

TYREX† Viscose Tire Yarn and Cord

The trade-marks listed here are the property of Beaunit Mills, Inc., Fibers Division, and must be so identified when they are used in advertising or on labels and hang-tags. All trade-names must be accompanied by the generic fiber classification; for example: Bemberg® rayon yarn, Vycron* polyester fiber.

BEAUNIT MILLS, INC., Fibers Division

MAIN OFFICE: 261 FIFTH AVE., NEW YORK 16, N. Y. • PLANT: ELIZABETHTON, TENN.

* T.M. Beaunit Mills, Inc., Fibers Division. Reg. app. for

† Certification mark of TYREX inc.

 # 7 in a series reviewing the "reasons-why" for the consumer acceptance of Arnel

ARNEL'S "STAMPS" OF CONSUMER APPROVAL

Beyond question, one of the outstanding fiber successes in the past few years has been Arnel triacetate. Mill after mill has given it the stamp of approval for its running efficiency . . . ease of handling . . . its fabric styling flexibility.

But most important of all—*it sells!* In volume. Prime reason for this, of course, is its tremendous consumer acceptance in the face of unparalleled competition in the fiber field for consumer attention.

Behind every fabric made and advertised as containing Arnel are such basic selling ingredients as DIMENSIONAL STABILITY. Here's why:

1. The superior properties possessed by fabrics made of Arnel come about through heat treatment of the finished fabric.
2. Heat-setting imparts exceptional stability to Arnel fabrics so that garments do not shrink out of fit.
3. All fabrics carrying the official Arnel symbol have been pre-tested for performance claimed—including dimensional stability. (Tests are conducted free of charge by the Celanese Fibers Company.)

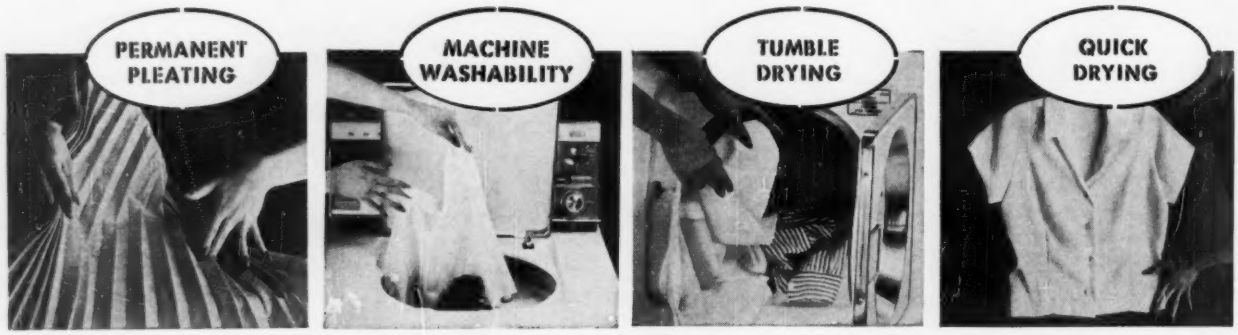
So take advantage of the great consumer acceptance of Arnel. Let Celanese work with you to develop new Arnel fabrics. Booklets 12A, 13A and 14A, containing the important technical procedure and facts about Arnel, are available by writing Celanese Fibers Company, a division of Celanese Corporation of America, Box 1414, Charlotte, N. C.

Celanese® Arnel®

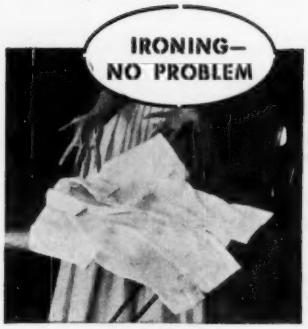
District Sales Offices: 180 Madison Ave., New York 16, N.Y.; 15 N. Broadway, Des Plaines, Ill.; Western Merchandise Mart, Room 478, San Francisco, Calif.; P. O. Box 1414, Charlotte 1, N. C.; 200 Boylston St., Chestnut Hill 67, Mass.; 3179 Maple Drive N. E., Atlanta 5, Ga.

Export Sales: Amcel Co., Inc., and Pan Amcel Co., Inc., 180 Madison Ave., New York 16, N. Y.

In Canada: Chemcell Fibres Limited, 1600 Dorchester Street West, Montreal, Quebec



Arnel . . . a



ARNEL*

*This is the official Arnel symbol—evidence that this fabric of this new triacetate fiber has been pre-tested for performance claimed.

Celanese contemporary fiber

1910

- **One type of rayon**
- **Two end products**

Back in the Nickelodeon Era rayon was rayon. It was produced in only one strength, one denier, one elongation. This early rayon was limited to use only in ribbon and hats.

1960

- **109 types of rayon**
- **Hundreds of end products**

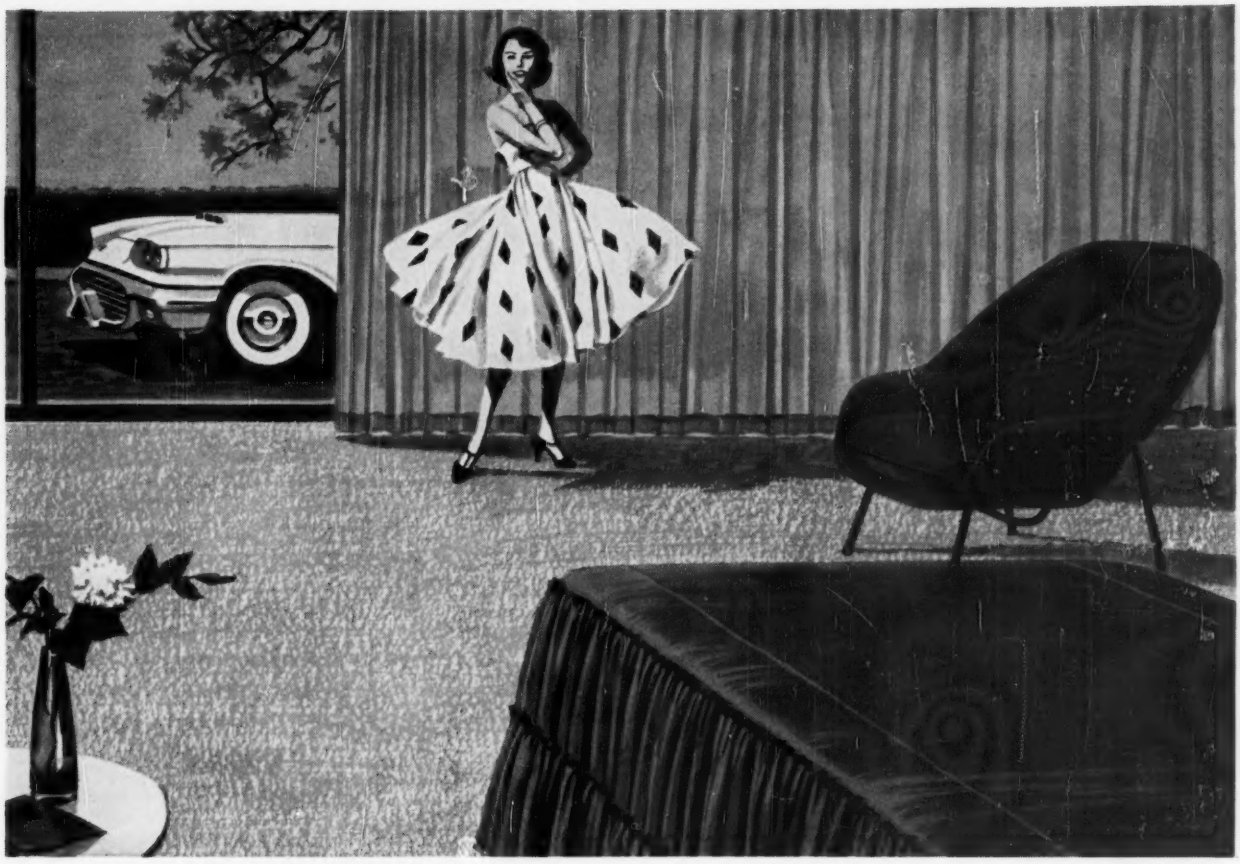
Today wonderful new Avisco rayons go into all the products illustrated at right . . . and many more! And this is just the beginning. Spectacular new developments are near at hand!

AVISCO® RAYON . . .

Yes, in 1960 rayon is a far cry from the limited product of the early nineteen hundreds. In fact, rayon now represents a huge family of radically different fibers and filament yarns. Each member of this growing family is individually engineered for specific physical properties, mill operations and end uses. American Viscose was and continues to be the leader in gearing rayon to fit the needs of the day . . . and developing highly advanced fibers and filament yarns for the future.

YOU NAME IT! If it's rayon . . . American Viscose has it!

Every type of rayon staple and filament known can be made by American Viscose . . . the *only* producer you can use as a source for *all* your rayon requirements. And remember, Avisco people have the technical know-how to make virtually any type of fiber or filament a mill wants, with tailor-made packages for specific needs. You name it . . . if anyone can produce it, American Viscose technicians can!



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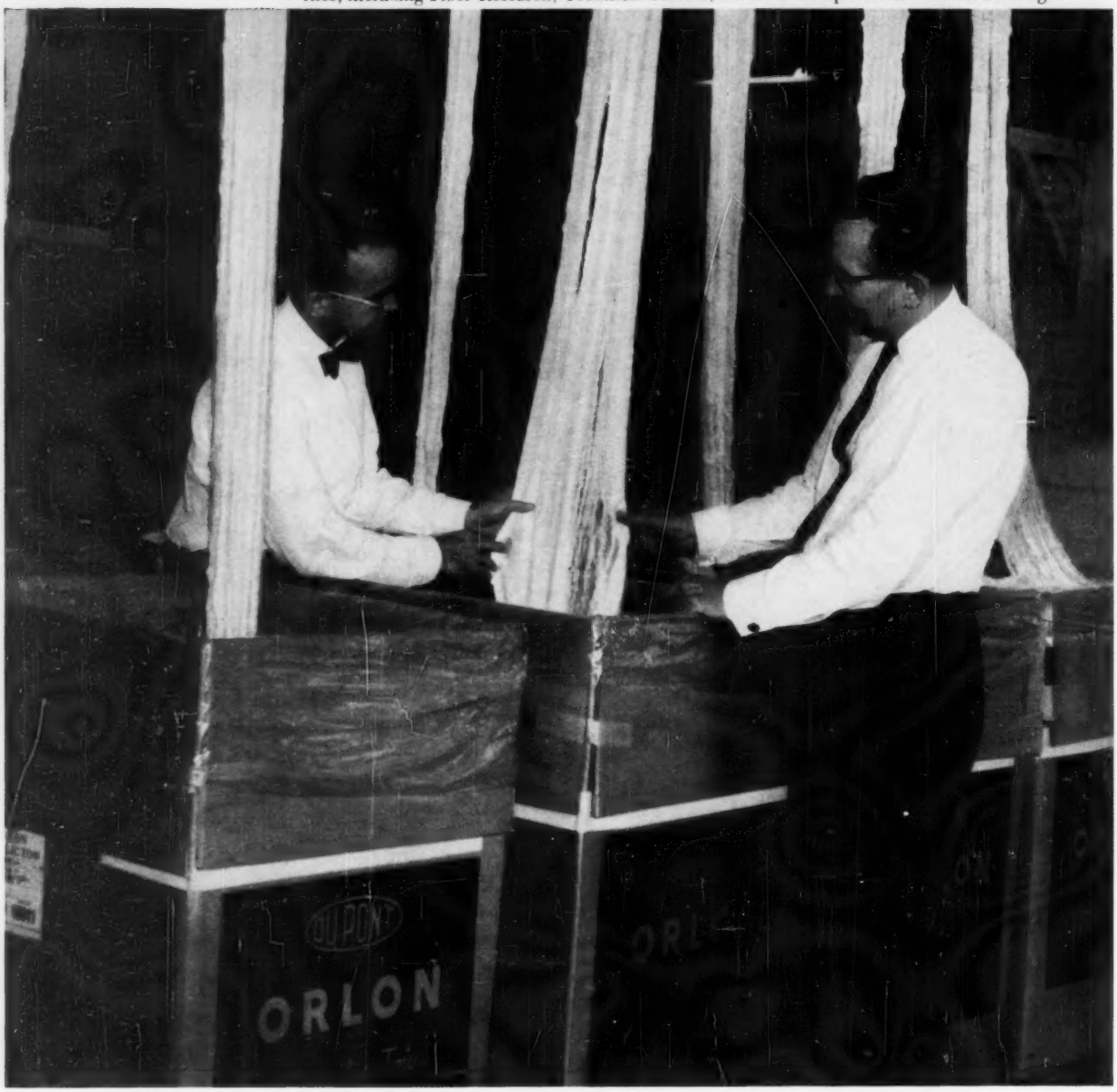
No. 14 in a series—How your Du Pont salesman is backed by many sales-building activities, including Fiber Research, Technical Service, Fabric Development and Merchandising.



Du Pont man helps create a coat of many colors

Fellow on the left is Bob Smith, Technical Sales Representative for Du Pont. He's shown at Collinsville, Va., with Julius Hermes, co-owner of Martin Processing Co., who has patented a unique method for continuous dyeing of "Orlon"* acrylic fiber tow. Du Pont's and Martin's technicians jointly developed a procedure for producing a very high shrinkage staple from the dyed tow. This makes possible two-dimensional pile coatings that have the deep, soft look and feel of fur . . . *and in any color!* What a boon for the women's coat market! And what a perfect example of the kind of cooperation that Du Pont technical and merchandising people offer to the textile industry.

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MODERN TEXTILES
Magazine

Publisher's Viewpoint

Spotlight on Home Furnishings

No area of the overall textile market presents so great an opportunity for manmade fibers as the broad field of home furnishings. In carpets, rugs, curtains, draperies, upholstery and domestics the manmade fibers these days are providing drama, excitement and dynamism as they are being adapted to new and improved end uses.

And this month, the interest of the textile industry in home furnishings reaches a climax at the crowded, overwhelmingly rich and varied display of fabrics at the annual Home Furnishings Market in Chicago. Advance reports indicate that, as never before, fabrics made of manmade fibers and yarns dominate the Market. The cellulosics, nylons, acrylics, modacrylics and polyesters will be strongly represented in the great profusion of new things shown in Chicago this month.

Realizing that home furnishings are an increasingly important outlet for manmade fibers, our editors in this month's issue have prepared a special, broadly comprehensive report on new achievements of these fibers in home furnishings.

Our report serves a double function. It presents first a summary of the new fibers, yarns and fabrics introduced in home furnishing end uses at the Market. Going beyond the Market itself, the report also gives our readers a comprehensive survey of the trends in home furnishing fabrics during the past six months, and a glimpse of expected developments in the months ahead.

It is our plan to make this home furnishings report an annual feature of our January issue. We hope that it will guide mills and converters, as well as manufacturers of furniture and other end products employing manmade fiber fabrics to profitable and increasing use of manmade fibers in the home furnishings field.

An Informative Report

Some valuable insights into the current textile picture were afforded recently by W. Ray Bell, president of the Association of Cotton Textile Merchants of New York. In his annual survey, "Ten Years of Cotton Textiles" made public last month, Bell said that sellers of cotton textiles look for an extended period of sound business to sustain a high level of mill activity.

Supporting this optimistic viewpoint, he cited these points: markets which touched bottom in mid-1958 have gained steadily through 16 months of an upward trend; sustained retail consumption and good business among fabric distributors resulted in resumed forward buying last fall for deliveries extending well into 1960; an absence of overhanging mill stocks.

Bell noted, however, that the picture is not completely unclouded. The mounting tide of imported fabrics and apparel "coming in from 50 nations, each subsidized with bargain price cotton and enjoying a 'waiver' of the statutory working conditions and social standards required of domestic mills" is the menacing cloud on the U. S. textile scene.

He drew especial attention to the growth of imports of cotton apparel and fabricated products. He noted in this connection the "strong appeal of pyramiding labor cost advantages through the three stages of cloth weaving, finishing and apparel fabrication, especially in Japan and Hong Kong. Wearing apparel imports have had a fantastic rate of growth, from a foreign value of $18,100,000 in 1954 to $71,100,000 in 1958."

He pointed out further that for 1959, such imports are estimated at $95,000,000 to $100,000,000. Hong Kong's cotton goods trade with the U. S., mainly apparel, has grown from "less than $1,000,000 in 1956 to $17,338,000 in 1958 and a projected $50,000,000 to $60,000,000 in 1959."

He noted finally that "the pressures of low-wage competition will continue to crowd our markets and pinch them away piecemeal until reasonable safeguards are finally established."

A. J. McCullough

OUTLOOK *in textile marketing*

Home Furnishings: a changing picture

By Robert C. Shook
A. W. Zelomek Associates, Inc.

Home furnishings textiles constitute a major market for textile fibers of all sorts, a billion and a half pounds or more annually. Further growth in total value is indicated by prospective population changes, which suggest a rising trend in marriages throughout the sixties. For the fibers which compete in this market, the stakes are high; but the competition is rough.

The carpet market provides an example of the extreme changes which take place. First there has been the growth of tufting. From nothing not much more than five years ago, tufting threatens to take over 80 to 90% of the market within another five years. Fiber consumption in this period will probably double.

But what fibers? Many would pay a small fortune to have the answer to that question. Tufting has become respectable in the quality of carpets it can produce, and in the variety of fibers it can and does use:

Wool, used chiefly in woven carpets until a year or two ago, this year will total as much as any other fiber used in tufting, if automotive carpeting and scatter rugs are excluded.

Acrylic staple, as well as other fibers, have felt the competition resulting from the last year's low wool prices, the rather moderate advance this year, and wool's widespread recognition by retailers and consumers.

Nylon staple, after experiencing some dilution of its reputation through the excessive use of waste in cheap constructions, has made a strong place for itself in wool-nylon blends. It could contribute a lot in blends with rayon and acetate, too, but little acetate is used, and to an increasing extent rayon is going into the very cheapest types of promotional carpets. Twist-set nylon yarns are also strong in cut pile friezes.

Textured nylon filament is the new yarn of the year, with demand still greater than the supply. But with five fiber producers, and uncounted throwsters, aiming at this market, suppliers will increase rapidly.

What is the best textured yarn for carpets? Or will there be two, or four, or more types all finding a place? What cost changes will take place, and how will these yarns be blended with other fibers? The consumption curve of other fibers will depend partly on answers to questions like these in the next few years.

Polypropylene, though not yet in commercial use, creates great interest. With its very low specific gravity, and its high covering power, this fiber can be a real competitor, if it measures up in other respects.

Upholstery fabrics are another promising market for manmade fibers. Total consumption in upholstery fabrics, draperies and slipcovers, is in the neighborhood of 300 million pounds annually, and the durability and cleanability of non-cellulosic fibers are prime assets in such end uses.

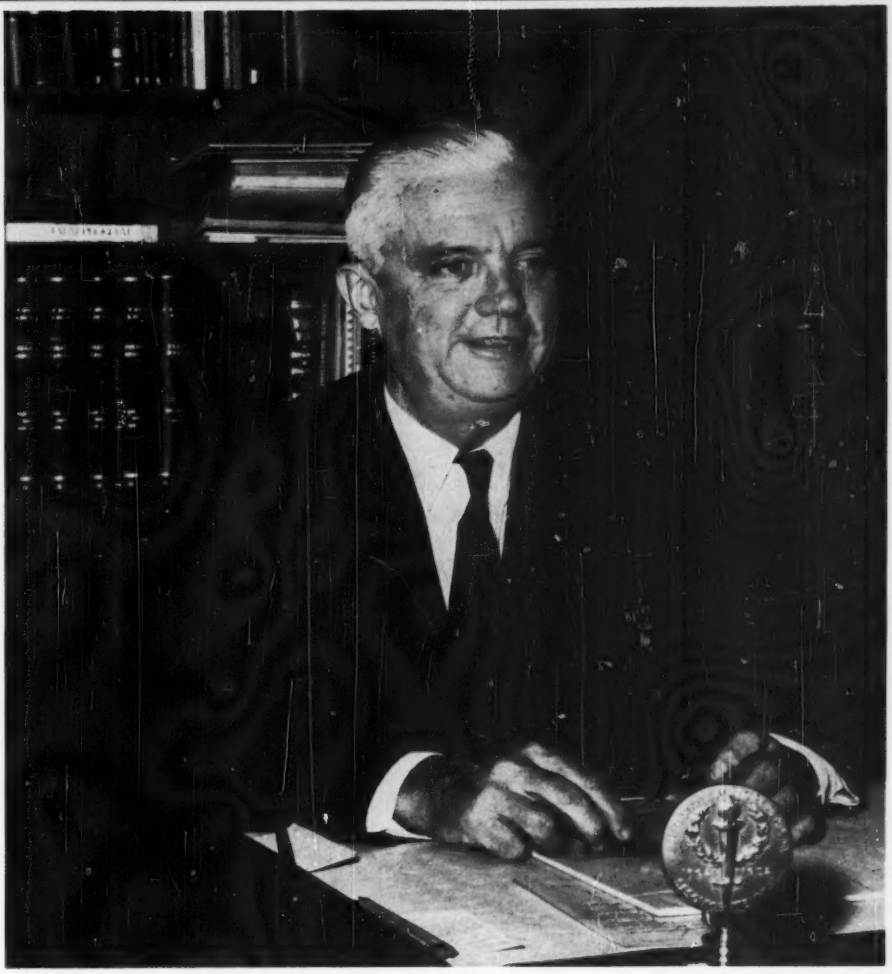
Upholstery fabric construction, too, may change; there is great interest, for example, in knit fabrics for this end use. Polyurethane-knit fabric laminates might provide a fine compromise between stretch and stability, with just enough of each.

It is not unlikely that changes will take place in the methods of manufacturing upholstered furniture, which may have effects as profound as those of tufting in the carpet industry. Molded frames and molded foam units, ready with laminated fabrics, for assembly without sewing represent a goal which, if realized, would convert a piece and hand work industry into an assembly line delivery with interchangeable parts.

Exciting developments are ahead also in other household and home furnishings textiles—blankets and other bed coverings, bedding itself, curtains, and draperies. Manmade fibers have made strong gains in these markets in the past, partly because these items demand a stronger and more critical combination of performance with styling possibilities than do many apparel items. It seems reasonable to estimate that manmade fibers as a group will continue to show of their most promising gains in these markets in the next few years.

By Jerome Campbell
EDITOR, MODERN TEXTILES MAGAZINE

As a boy Robert Stevens had one ambition—to be a textile man. In his 38 years with J. P. Stevens he has splendidly fulfilled his dream in helping a family business grow into one of the largest publicy held companies making a wide range of fabrics in 50 modern plants



The head of the house of Stevens

ON A PARTICULARLY BUSY DAY in July, 1899, John P. Stevens in his office in New York found time to send a wire to his cousin Nathaniel Stevens, who ran the woolen mills of M. T. Stevens & Sons in North Andover, Mass. "Announce the arrival of a new office boy," the telegram said. The new recruit in the Stevens textile business was Robert Ten Brock Stevens.

On the day following his birth, the textile business community in downtown Manhattan noted with interest the formal announcement that the baby's father had ended his connection with the selling house of Faulkner, Page & Co., which for many years had sold the output of the Stevens mills, and had opened a new firm, J. P. Stevens & Co. with offices at 23 Thomas Street. Heading the short list of the new firm's clients were the Stevens mills in New England.

All those in textiles, who had known or worked with Robert Stevens over the years, either as business associates or customers, will agree that his father's telegram was, in its prophesy, precisely accurate. For Robert Stevens, ever since his graduation from college, has been heart and soul involved in the Stevens textile business. As far back as he can remember, the president of J. P. Stevens & Co. was determined to enter the family business. From earliest boyhood, textiles was his singlemindedly chosen field. It never occurred to him, he says now, even to think of any other possibility as his life's work.

This overwhelming certainty that he would grow up to be a textile merchant was inspired in large part, Robert Stevens believes, by the deep respect and love he had for his father. In part, also, Robert Stevens' sense that textiles was the only career for him stemmed from a deep awareness and a personal sense of involvement in the long textile history of his family which has been closely tied up with fabric manufacturing ever since that day in 1813 when Robert Stevens' great grandfather, Captain Nathaniel Stevens, saw the wheels turn for the first time in his new woolen mill in North Andover.

In fact so keen was Robert Stevens on getting into the textile business that he asked his father to give him a job when he graduated from Phillips Andover Academy. But John Stevens, not anxious to see the prophesy of his telegram literally fulfilled, persuaded his son that a college education would make him a better textile man even if it meant a delay of four years or so. Somewhat reluctantly, Robert enrolled at

THREE KEY MEN—Taken in 1941 at a celebration of the 65th year of the late Nathaniel Stevens in the woolen business, this picture shows (left to right) Robert T. Stevens, the late Abbott Stevens and John P. Stevens, Jr., now chairman of the board

Yale where in deliberate preparation for his planned career in textiles he majored in business subjects and economics. While he was at Yale, the United States entered the first World War, and young Stevens lost no time in enlisting in the Army, thus beginning an association which was later to result in a long and distinguished career in this branch of the armed forces. The war's end in 1918 found him a second lieutenant of artillery in a Kentucky training camp. Out of uniform, he finished his studies at Yale and hastened to New York to report for duty at the Stevens office.

Learned from Good Men

His first assignment was to clean out the attic of the firm's building on Thomas Street, which, he recalls now, was stuffed with old ledgers and "miscellaneous junk." With this task completed, he was sent into the accounting department where he worked under William Fraser, one of Stevens' key men then and for many years after. From this able instructor he learned something about the intricacies of the financial side of the business.

Next he was assigned to learn selling under the tutelage of William Gallon of whom he speaks today with affection and respect as one of the great masters of fabric marketing. Gallon sent Stevens out to call on the handkerchief trade, a tall ruddy-faced., cheerful and friendly young man, those, who knew him then recall, tremendously willing to learn and tremendously obliging to customers and fellow workers.

The truth is that Robert Stevens took to selling like a duck takes to water. He grasped then as a young man of 22 what he still firmly believes—that in textiles selling is the essential function. He was and still is immensely proud to count himself among the men who sell gray and finished cloth in the New York market. Today, more than three decades after he made his first sale of cloth from mills represented by the house of Stevens, Robert Stevens, as president of one of the largest fabric manufacturing corporations in the country, is far more than a salesman. But it is as a salesman that he still thinks of himself.

In a talk in October before the Textile Salesmen's Association, he remarked that he considered it particularly fitting that he was a guest of textile salesmen "because", he said, "I spend a very considerable portion of time in the field of sales." He reminded his listeners that he has on his desk a pen set with the inscription on the base, "selling is my job." He added that the inscription was " a constant reminder of my most important job in our company."

Since Robert Stevens joined J. P. Stevens in 1921 as a fledgling salesman, the company has changed and grown with the change and growth that has taken place in the American economy and standards of living. Stevens became president in 1929, following the death of his father. In 1941, he took a leave of absence to serve in the Army, first as a colonel in the office of the Quartermaster General, and from 1943 through 1945 as a deputy director of purchases. In 1953, he again took leave of his duties at J. P. Stevens to serve as Secretary of the Army, a post he held until July, 1955.

Lest it be forgotten, he served as civilian head of the Army during the painful days of the Korean War. One of his first acts, when he took office upon President Eisenhower's inaugeration in January, 1953, was to fly out to Korea to see for himself the scene of the war and learn from personal experience how our soldiers were living and fighting in that bleak land. And when the armistice was arranged in June, 1953, he returned to Korea to be on hand to welcome back, in the name of the country, the first prisoners of war to be repatriated. These acts of on-the-spot investigation were symbolic of what he now says was his primary interest in accepting the post of Secretary of the Army, "to serve the troops in the field."

A Dedicated Man

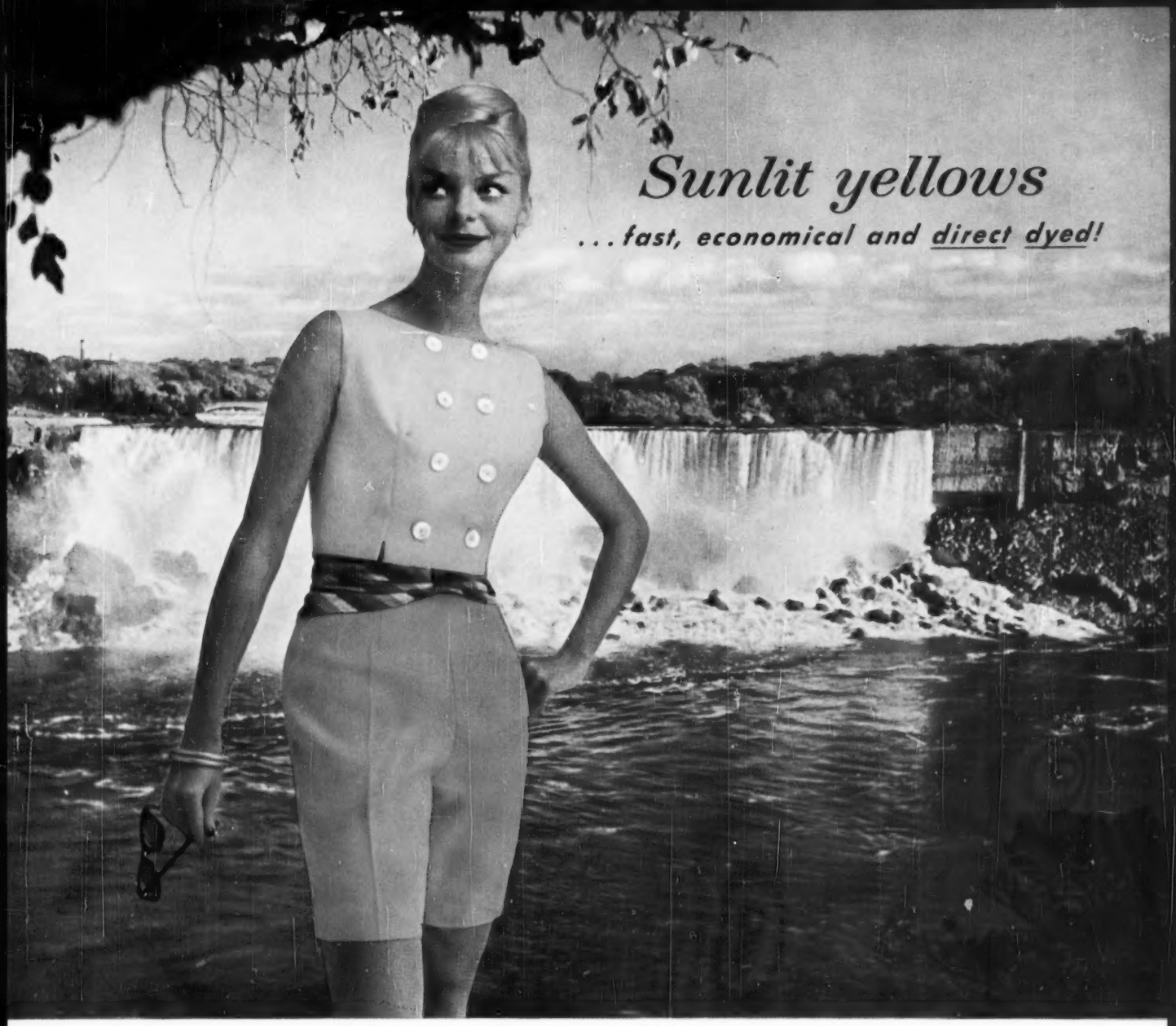
It was not easy for a man who loves the textile business as deeply as Stevens and who is wholeheartedly devoted to his company to give both up in order to work long years in Washington in the service of his country. Joseph Sutherland, who filled in for Stevens as president of the company while he was Secretary of the Army, recalls how Stevens expressed in his personal letters to Sutherland and other close associates, his longing to be back on the textile scene again, and once again be with his friends and fellow workers at Stevens' offices and mills.

In spite of the fact that he would have been far more comfortable continuing his career in textiles, Stevens never hesitated in sacrificing his personal interests and preferences on behalf of his country. It is a notable characteristic of the man that he has a deep, almost religious awareness of the call upon him of a higher duty. And in his unpretentious, unsolemn and quiet way, this deep devotion to a duty beyond his personal inclinations is the keystone of Robert Stevens' character. He is, as one colleague who has known him for 35 years says, a dedicated man.

His family, his country, his company—these are the three causes to which he is dedicated. As a family man, he has lived a quiet life in surburban Plainfield, N. J., the town where his father settled when he came from North Andover to work in New York. In Plainfield, he and Mrs. Stevens have raised a family of four sons and a daughter.

His dedication to his country demonstrated by unstinting service in three wars, have earned for him

(Continued on Page 41)



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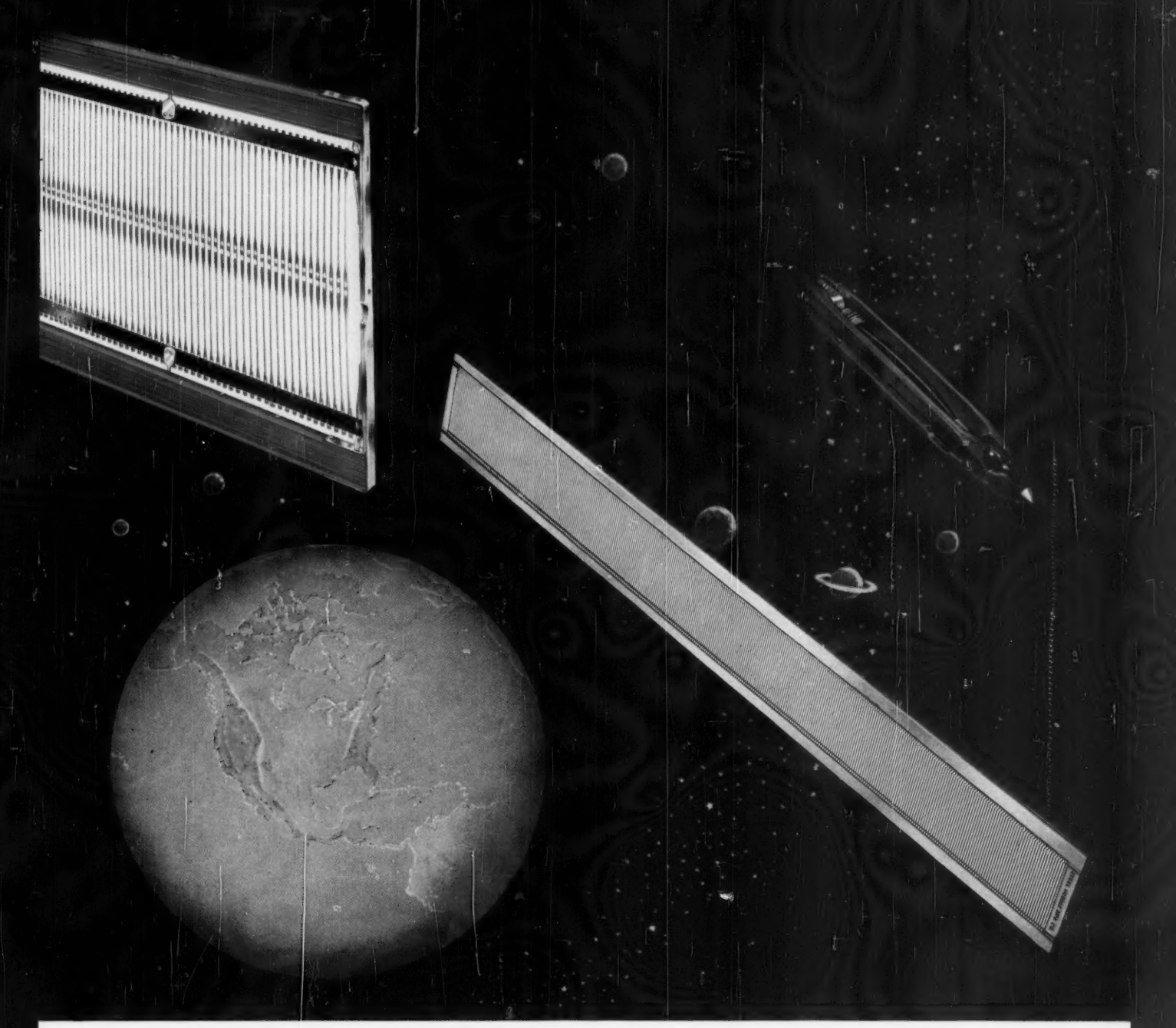

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K-5815

A report on the Chicago Market

What's new in HOME FURNISHING FABRICS

Fresh styling, brighter colors, longer wear are being brought to home furnishings by manmade fibers

By the Editors

As a new decade opens, through its portals marches one outstandingly optimistic industry—the makers of home furnishings fabrics. Trade predictions for 1960 foresee bigger volume and higher unit sales. Reasons cited for this optimism are the nation's growing number of new homes and homemakers, the increasing interest in improving the appearance of existing homes, and the consequent willingness of Americans to invest larger portions of their incomes in carpets, draperies, upholstery and similar home furnishing fabrics.

Advance news of this month's big Home Furnishings Market in Chicago indicate that this industry has prepared itself for maximum realization of 1960' market potentials. New fibers and fabrics continue to emerge, existing ones are improved and applied to new end uses, programs for quality control are expanded on the basis of use-tests and research, and educational-type promotions become more prevalent. Typical of the latter are the carpet advertisements that speak of acoustical value, low maintenance costs, warmth, comfort and safety, rather than bargain price.

Typical of trade interest in bettering consumer knowledge of new fibers and fabrics and thus improving consumer satisfaction is the early preparation by carpet makers for compliance with the Textile Fiber Products Indentification Act which goes into effect March 3rd. Most of the new lines shown this month are labeled in accordance with the law's provisions, with many manufacturers and distributors using the continuing guaranty.

That is, they have filed statements with the FTC that all their shipments are properly labeled, hence eliminating the need for individual guarantees, and henceforth invoices and other papers covering the

CELANESE WAS HERE—Carrying out the "American Idea" promotion of Celanese, the draperies are 100% Arnel triacetate in a design inspired by old Sandwich glass; armchairs are covered with an acetate-cotton blend fabric; on the walls is Fabra-Wall, a cloth combining acetate, cotton and rayon backed with paper

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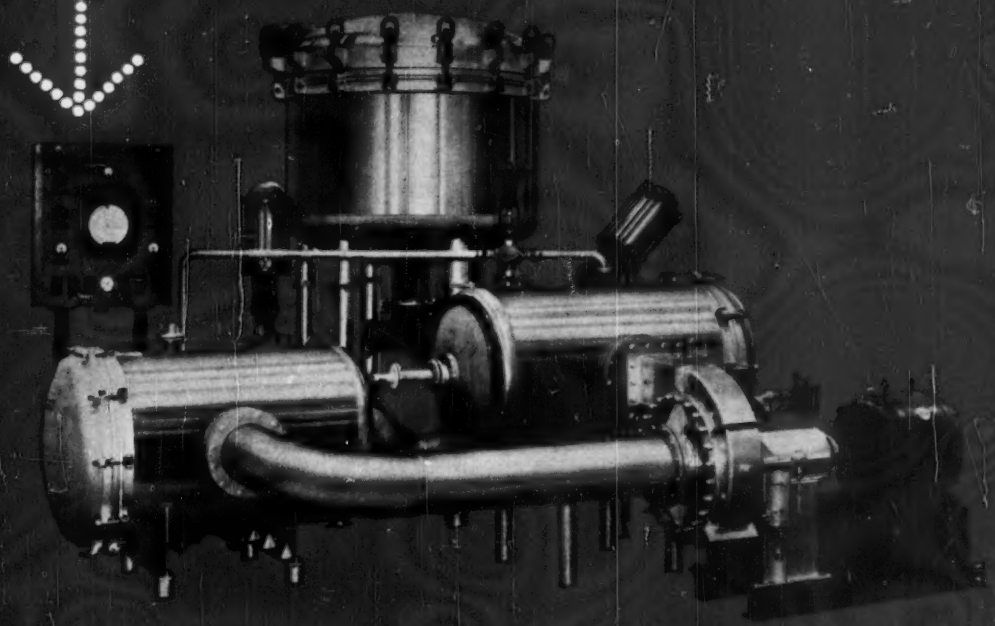

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The Rudel Machinery Co., Ltd.
614 St. James Street, W., Montreal
260 Fleet St. E., Toronto

WASHABLE BEAR—This "Polabear" rug knitted by Princeton, using American Cyanamid's Creslan and Union Carbide's Dynel, can be machine-washed

handling of the carpet must contain this statement: "Continuing guaranty under the Textile Fiber Products Identification Act filed with the Federal Trade Commission."

Typical, too, is the growing emphasis on quality and minimum performance standards. This trend was a major point, for example, of talks at the fall interim meeting of the Tufted Textile Manufacturers Association. At that time, Steele L. Winterer, president of A. & M. Karagheusian, warned that tufted carpet will lose out to wovens unless manufacurers of tufteds resist pressures to make sub-standard products. At the same meeting, 1959 mill shipments for all tufted products were predicted to be between $450 and $500 million, biggest in history.

For all carpets, the American Carpet Institute announced plans in November to renew discussions on establishment of a set of standards for national advertising program. Previous attempts to do so failed to reach agreement.

The carpet field, as a matter of fact, has been an especially active segment of the home furnishings trade and one in which manufacturers expect especially good results in 1960.

Princeton Knitting Mills, which was acquired by Burlington late last year, will expand its operations in the floor coverings field, according to Samuel Silverman, vice president-sales, because this is now "the hottest part of the firm's business." Company expectations are for a $5 million wholesale volume this year. A starting point of the Princeton expansion program was introduction at this month's market of area rugs designated D'Orsini. Before this move into broadloom, Princeton primarily made Pouff acrylic scatter rugs.

Charm Tred Mills, a textile firm, entered the floor coverings field last year when it was purchased by Burlington Industries.

Teppich-Kibek, West German carpet mail order house, announced plans in November to set up a branch in Canada to supply the North American market.

Production economy has been gained by the makers of Acrilan carpet since Chemstrand reduced the price of its 15 denier acrylic carpet staple from $1.01 to $.93 per pound, effective November 23, 1959. In announcing the decrease, the company attributed it to continued increases in sales volume since the fiber was introduced three years ago. However, no change is expected in the retail price of Acrilan carpet.

Chemstrand has available a new 33-page booklet for both mills and carpet merchandisers entitled, "The Manufacture and Performance Characteristics of Acrilan Carpet." It is a detailed report on the utilization of Acrilan in floor coverings. *Copies may be obtained free by writing the editors.*

Carpet makers have reported better inventory conditions this January than last. The aim, they say, has been to introduce smaller lines now, in order to achieve better control of production and distribution, and then to add new qualities later in the year.

At the market in Chicago new lines of Du Pont 501 nylon carpet have been introduced. Cabin Crafts' first use of the yarn last November was in Deep Springs, a carpet styled in a high-low random texture with scrim backing. In light, subdued tones, it is made to retail at $9.95. A second Cabin Crafts 501 nylon carpet appeared this month in a higher-price line with more formal texture. Four other companies are licensed to produce 501 nylon carpet: Lees, Barwick, Bigelow and Callaway.

On January 4th, Du Pont showed three groups of carpeting made of its fibers to a meeting of the press. In addition to the newest styles in 501 continuous filament carpet nylon and a group of patterned nylon carpets from several mills, the first carpets made of Orlon acrylic fiber were shown.

The Orlon Type 37 carpet fiber is used by C. H. Masland in blends with wool and by Alexander Smith in blends with modacrylics. Du Pont reported that, in performance tests, the new fiber showed more durability, easier cleanability and better resistance to crushing and matting than most carpet fibers and pointed out that it has a natural whiteness which provides for color clarity and good lightfastness. Good bulk and resilience were also noted for Orlon Type 37.

At the home furnishings market too was a display of three modern room settings by Dorothy Liebes—a country room, a city room and a man's office—all in coordinated fabrics and carpeting made of Du Pont fibers.

Textured Nylon Progress

Textured filament carpet nylon which was big news in 1959 promises to continue in importance in 1960. Chemstrand has developed a new textured filament carpet nylon called Cumuloft which was introduced this month by three carpet manufacturers: Mohawk, Alexander Smith and Callaway. It is 15 denier per filament, priced at $1.53 per pound on tubes 1230 denier, 68 filaments, and $1.47 per pound on tubes for 3690 denier, 204 filaments. Chemstrand has a control program which requires among its standards that Cumuloft nylon carpet be made with a face of 100% of the textured yarn. The fiber is described as having a modified cross section with a built-in crimp and rounded corners and offering new depth.

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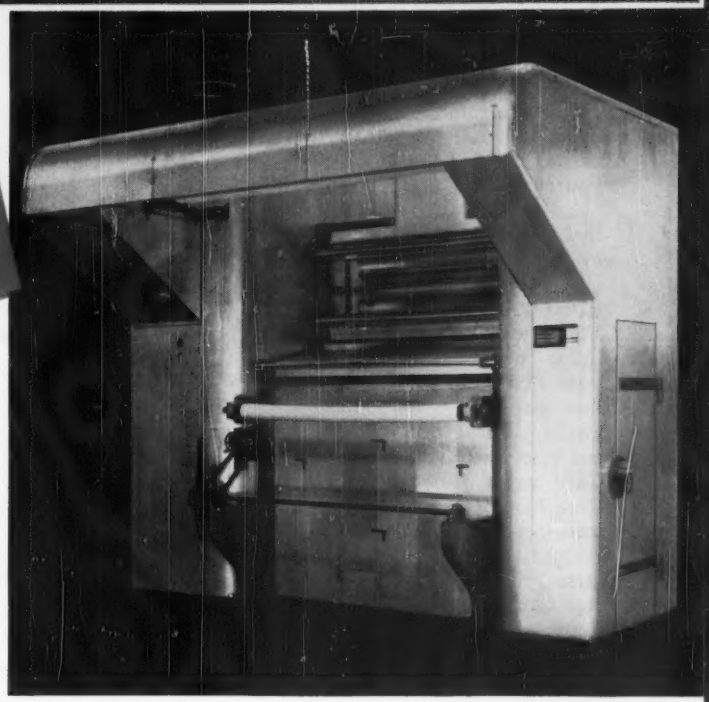

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Home Furnishing Fabrics

(Continued from Page 28)

Last fall, Allied demonstrated the wearability and cleanability of its Textured Caprolan filament nylon as a carpet fiber when it released findings of a wear test of carpet laid at Pennsylvania Railroad Station, New York, in a particularly heavy traffic location. For comparison purposes, strips of Caprolan were interspersed with strips of wool, acrylic and spun nylon carpet. Allied reported that after 55 days the wool and acrylic fiber carpets wore down; neither the Textured Caprolan nor spun nylon showed perceptible signs of wear, and that, although uncleaned for the 55 days, Textured Caprolan responded well to do-it-yourself home cleaning.

To show the versatility of Textured Caprolan, Allied, for the January market, had displays and swatches of participating mills on view at its Chicago office in the Merchandise Mart. Five mills also featured Textured Caprolan carpets in their showrooms. They were: Aldon Rug Mills' Golden Sixties—a three-color loop textured Caprolan carpet in six tweed color surface effects; Croft's Invincible, a high-low loop pile fabric, and the same mill's Destiny and Fantasy lines; Canter Brothers' Crest, a tone-on-tone cut pile custom carpet in custom widths and colors; Callaway's Captivation—a high-low loop pile carpet that has been space treated to impart a luxurious tone-on-tone surface effect.

Captivation was introduced to consumers last August by Davison-Paxon, Atlanta and was featured in strong retail promotions in six key cities starting in September—Detroit, Houston, Indianapolis, El Paso, Charlotte and St. Louis.

Another new development in the rapidly changing textured nylon carpet picture is the first appearance of a bulked nylon filament yarn of Industrial Rayon Corp. Shown for the first time at the Chicago market, the new nylon 6 yarn made its debut in a carpet of high-low looped pile construction tufted by Karagheusian. Industrial's new yarn is tradenamed Nyloft, and other manufacturers will include it in their carpet lines as soon as additional supplies become available. Facilities for expanded output of Nyloft are being installed at Industrial's nylon plant at Covington, Ky.

Intensive testing of Nyloft in a range of carpet constructions preceded its introduction according to Charles E. Rodgers, Jr., sales manager of the company's nylon division. He said that the tests showed that Nyloft had favorable loft and cover, an attractive luster, and excellent resilience. He added that Nyloft carpets are free from pilling and provide "extraordinary wear."

Other news in nylon carpet is Bigelow's Dorleigh, a 100% solution-dyed nylon tweed with these features: range of color combinations with four colors in each tuft; pile yarn; 12 and 15-foot widths.

Color is one of the exciting features of 1960 carpet lines. Across the board, in budget-priced and higher-priced lines, there are many new tweeds, new tones and light, clear colors. Newest of the high-fashion tones are lavenders, reds, bright blues and topaz. The opportunities for home furnishings styling and merchandising they present were illustrated by the American Viscose display in Chicago this month of four decorative vignettes designed by William Pahlmann with a "lavender plus" color theme. One was a dining room, with bright orange casement and carpeting, the carpeting tied in with lavender ribbons and streamers from brass rings, chairs upholstered in deep lavender and walls pale lavender. Another was a man's library with lavender carpeting and wall-length draperies in harmonizing colors. The other two settings were a study and a living room.

In addition to the Pahlmann vignettes, American Viscose prepared a special display illustrating the soil resistance of Super L, smooth Avisco carpet rayon. It showed before and after samples of carpet tested in 40 stores throughout the country in heavy traffic areas of non-selling sections.

In making the tests, pieces of carpets measuring 2 by 4 feet were woven in two invisibly-joined panels, one made of Super L rayon and the other of competitive fibers, neither visibly identified. After being exposed to extreme wear conditions for three weeks, final cleaning showed that the Super L fibers resembled their original appearance more closely than did the competitive fiber. The comparison panels used were of commercially available carpeting identically priced and constructed.

(Continued on Page 33)

SOFT GOING— Some three million commuters' feet pounded carpet for 55 days last fall in a wear test at New York's Penn Station by Allied Chemical Corp. to test carpet made of its textured nylon Caprolan yarn. Other fibers tested were wool, spun nylon and acrylics

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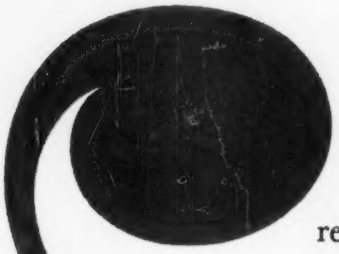

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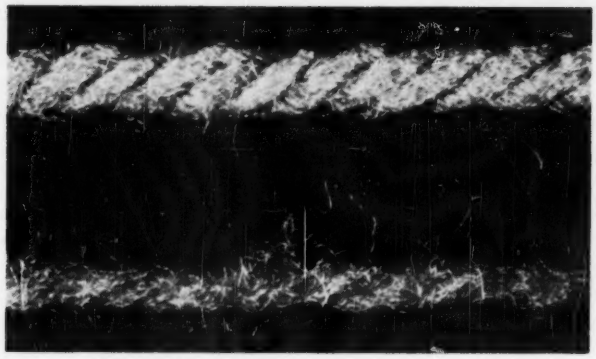


WHEN THE HEAT'S ON—On the bottom is Eastman's Verel HB fiber in yarn form before steaming. On the top after steaming, showing its high bulking properties.

(Continued from Page 30)

One of the newest developments in carpets is American Cyanamid's experiments with six carpet mills on the use of Creslan acrylic. Although not yet available commercially in carpets, the fiber is expected to be a strong contender in the carpet market by the end of 1960, according to American Cyanamid. In its exhibit at the Chicago market of the broad furnishings potential of Creslan, the company showed area rugs of the acrylic in various weaves and patterns, designed and woven by Edward Fields, Inc.

The reported advantages of Creslan in floor coverings are its crush resistance, adaptability to luxurious colors, good cleanability and texture appearance after cleaning. Mills experimenting with Creslan in broad woven and tufted carpet are said to be finding the fiber easy to process and dye.

Creslan with Union Carbide's Dynel, in a new 50-50 blend which is said to eliminate matting and to offer better color fastness and washability, was introduced last fall by Princeton Mills in Pouff pile rugs. These rugs were so popular, along with other Pouff merchandise, Princeton reports, that it is also selling Pouff for wall-to-wall carpeting. At the Chicago market the company exhibited "an all Pouff bedroom" with wall-to-wall carpeting, accent scatter rugs, an upholstered ottoman, pillows and window drapes.

Union Carbide has announced that Dynel carpeting was selected for a 15-acre installation (said to be the world's largest) in its new building in New York City. The selection was based, the company reported, on comparative floor tests of various carpet fibers and colors in which Dynel stood out as easy to clean, able to withstand continuous traffic and retain its appearance.

A 1960 arrival not only in carpet but also in other home furnishings will be Reevon, low-denier polypropylene fiber. Reeves Brothers, which last August was the first company to begin commercial production of this fiber says that manufacturers are testing the fiber for use in rugs, upholstery fabric and padding, batting for pillows, comforters and cushions. Sold as staple or multi-filament yarns, and available in a range of deniers from three up, the fiber is said to have these qualities: high resilience, pure white color, light weight with a higher yield per pound than nylon.

Other new developments in carpets involve backing. Amerilux is a new product by La France Carpets in which closely woven carpet is bonded to a cured sponge rubber base which also forms the underlay. The backing is "Kem-Blo" sponge rubber by U. S. Rubber; the carpet is made either of 100% American Viscose Avicron, rayon carpet fiber, or of a combination of Du Pont carpet nylon with Celaire, acetate carpet fiber of Celanese. A range of patterns, colors and textures are available or color specifications may be given. Characteristics noted for Amerilux include: mildew, lint and moth proof; non-shedding and matting; sound absorbent.

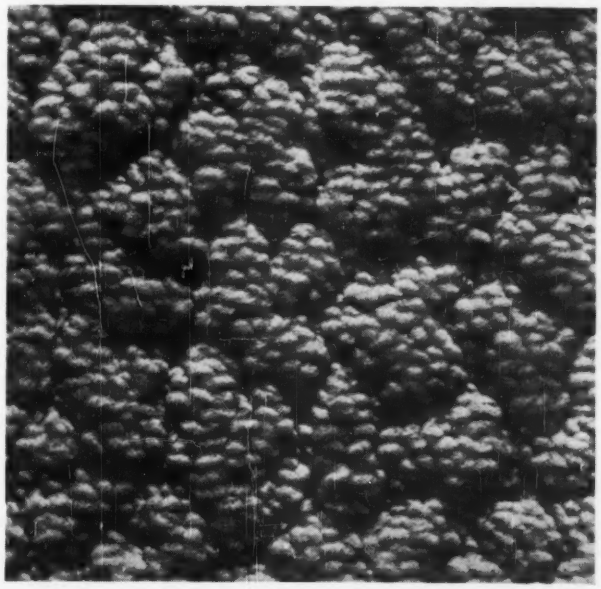
Candycote is a new floor covering which combines fabric with foam rubber backing and can be used alone as carpeting or as padding under conventional carpeting. The backing is a new synthetic rubber latex called Pliolite Latex 5352 produced by the Chemical Division of Goodyear Tire & Rubber, which reports that the synthetic latex is more stable in price and more consistent in quality than the natural rubber latex it replaces in foam applications. Crown Rubber Co. is making Candycote, in pinstrip or broadstripe fabric.

G. H. Rauschenberg Co. is making four foam-backed carpets in different qualities and using different fibers.

Among the new developments in carpets made known at the January Market was the announcement by Eastman of its new high bulk Verel modacrylic fiber intended specifically for floor coverings. Tradenamed Verel HB the new fiber is said to possess all the characteristics of Verel as currently used in carpets, but with the added property of "built-in" ability to bulk and bloom in finishing. Because if its latent high bulk Verel HB is said to provide greatly improved cover.

Spinning systems such as worsted, American and cotton, which parallel the fibers, give the greatest bulkiness with Verel HB fiber. Woolen system yarns give a lower degree of bulk. The bulkiness of Verel HB yarns can be developed by a steaming process, by piece dyeing, or by latex curing of the carpeting. Latex curing at 240 degrees F. or above will do an effective job of developing bulk. Piece dyeing or skein dyeing will develop the bulkiness completely.

Carpets using this new Verel yarn must be made in looser constructions to allow for contracting and blooming. The yarn will contract between 10 and 15 per cent after bulking. Verel HB yarn should be especially suited to piece dyeing. As the yarns bulk, they resist distortion in the dye beck. As this article is written, satisfactory full roll dyeings of Verel



NEWEST NYLON—This carpet fabric of Karagheusian is one of the first made with Nyloft, Industrial Rayon Corp.'s new textured nylon filament yarn.

HOME DECORATING MADE EASY—These "Add-A-Drape" panels of Home Curtain Corp. can be joined together without sewing by a seam connector made by Celanese Plastics. The Draperies are woven with a rayon warp of Industrial Rayon Corp., and are machine-washable at home without need for ironing

carpeting have been made, taking advantage of new low temperature dyeing techniques and the new HB yarn.

An excellent saxony textured carpet can be made with Verel HB yarn without the need for twist setting. When the carpet pile is steamed, the yarn ends form a permanent nub. Shearing of the pile then gives a saxony effect which holds its texture well in service and in cleaning.

Yarns made with Verel HB fiber have less luster than comparable yarns of regular Verel. For this reason, a higher percentage of bright fiber should be used. With regular Verel, 70% bright and 30% dull fiber is normally recommended. With Verel HB, 85 to 90% bright fiber must be used to give comparable luster. In some styles, 100% bright fiber of Verel HB may be desired.

Verel HB is said to have better resistance to abrasive wear than wool and acrylics. This fact has been substantiated by mounting carpets of identical construction on stairways and measuring the number of steps required to wear the carpets to the backing. The bulking characteristic of Verel HB makes possible a whole new range of surface effects in carpeting. Combinations of bulking and non-bulking yarn have considerable styling potential in all-Verel or blends with other fibers.

Draperies

Consumer interest in better home furnishings and their willingness to pay more for better home furnishings was one of the drapery trade's explanations for jobber willingness—even eagerness—to get higher-priced draperies for this year's selling. It also explains why retailers throughout the country have been reporting growing sales of ninon curtains without even promoting them.

It explains, too, the current increase in sales of lined ready-made draperies. A new development in ready-mades is Add-A-Drape by Home Curtain Corp. These are pinch-pleated single panels with a Celanese acetate plastic seam connector that slides on and off the sidehem of the panel to form wall-to-wall draperies without seams. These new curtains are made up in a number of fabrics including a rich jacquard made with a warp yarn of Industrial Rayon Corp. This drapery is machine washable and needs little or no ironing.

Croscill has introduced another new ready-made drapery with a matching undercurtain in a flocked print as part of its weighted ready-made program. The curtain is Du Pont Dacron polyester marquisette.

Trading up by consumers offers good prospects for the gamut of new offerings and continued numbers in draperies and curtains for spring 1960.

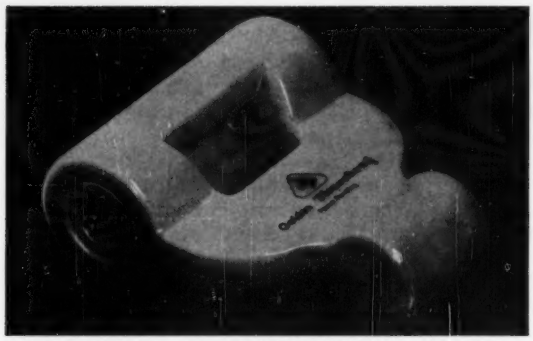
Walter Fabrics has achieved a raw silk likeness in its Shansi Collection by the use of eight denier crimped Avisco rayon staple in the filling with Avisco acetate in the warp, an innovation in fabric technology, according to the manufacturer. Walter has distributed special display books to jobbers showing seven hand-screened patterns in the Shansi Collection, each in four to six colors, and including a foldout page with 26 solid color swatches related to color-coordinated prints.

At the Chicago market, Craftex featured a group of drapery fabrics of Dow Chemical's Lurex.

Cupersil rayon dual-color yarn, a new development of Beaunit Mills, Fiber Division, gives new texture and color to a Shulman Fabrics collection of lustrous decorative fabrics. The Cupersil is made exclusively for Shulman by Beaunit. The new group, called Tashmir Wovens for their Oriental theme, consists of blends of Cupersil, Bemberg rayon, Dacron, acetate and silk in a variety of weights and textures for casement sheers, draperies, upholstery fabrics, bedspreads and decorative pillows. They are made in combinations of about 21 colors; weaves are in solids and monochromatic stripes.

Owens-Corning has introduced a new concept in draperies. The idea has been to utilize the soft, decorative effect of draperies combined with light and glare control along with functional heat flow resistance. According to Owens-Corning, careful tests show that glass fiber fabrics, produced to meet the specifications the company has worked out for fenestration fabrics, reduce solar heat transfer as effectively, and in some cases, better than other accepted shading devices. Draperies fitting into the fenestration fabric ideal have noise reducing properties as well, it is stated. Glass fiber fenestration fabrics are being produced by a number of mills and distributed to consumers through interior decorators and custom fabric jobbers throughout the country. *(Continued on Page 36)*

DAYTON'S GOLDEN THOROBRED DROP BOX PICKER cushions the whole picking system thanks to a brand new kind of material developed after ten years of Dayton research.



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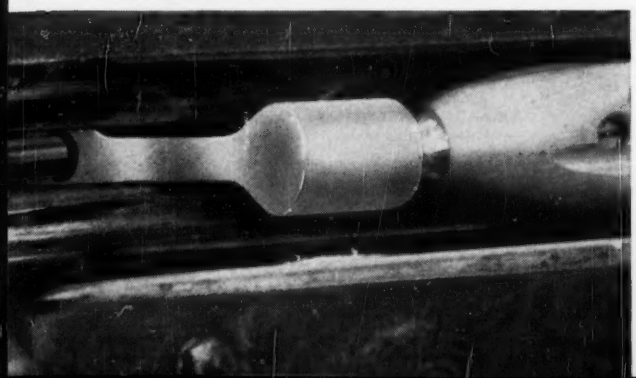

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Dayton research revolutionizes Drop Box Picker performance

Dayton's Golden Thorobred Drop Box Picker is amazing mill superintendents and overseers as records pile up showing it outlasts all conventional types 10 to 1. And it outperforms them in economies—with big reductions in loom downtime and big savings in picker replacement costs.

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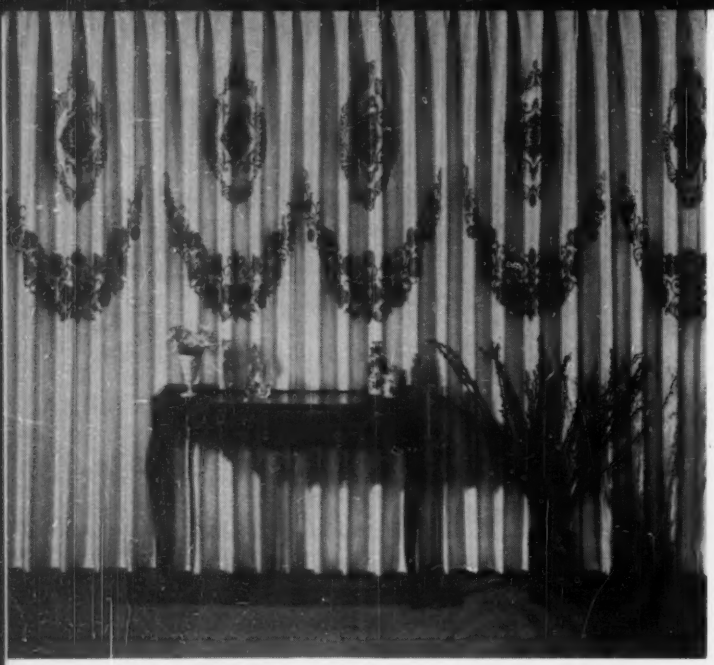


HAND-PRINTED BEMBERG—This hand-printed drapery was woven by Rem Looms using Beaunit Mills' American Bemberg yarn. It is called Silktone

(Continued from Page 34)

Stevens Fabrics last fall promoted glass fiber curtains and draperies "as washable as your windows." In December, Cameo introduced new Fiberglas lines which included cafe curtains with panoramic prints and a heavy boucle net Fiberglas called Seine.

A new type of decorative yarn developed by Metlon Corp. is being used for textured drapery fabrics and in sheer curtains. Known as Woodtone Mylar, it simulates the bamboo strips used in woodweaves of all types and is made in one color—blond wool. It is said to be exceptionally strong. Mylar is Du Pont's polyester film.

Celanese acetate continues to be important in draperies. It is featured in a number of spring lines. Thick-and-thin acetate with Fortisan rayon is in Waverly Bonded Fabrics' Primavera, bamboo and leaf print in six colors and Toile Indienne, modern paisley in eight colors. Chifonese of 100% Celanese acetate ninon is by Robertson Factories. Antique satin of viscose and Celanese Type F are used in Royalty, ready-mades and piece goods in a range of prints at Spectrum Fabrics. Florentine Cloth by Riverdale contains viscose and Celanese Type F in ready-mades and piece goods.

Titus Blatter has introduced the first hammered satin drapery fabric which is printed. Called Ripple, it contains spun rayon and Celanese Type F acetate and is available in four prints in 46-inch piece goods and ready-mades.

Polished cotton in 36-inch width is expected to be a good spring number in 1960 and is in at least seven lines—by Everfast, Seneca, Covington, Waverly, Imperial, Kendell Lunaire, Mead & Montague.

Du Pont, however, advertises "wash and hang" 100% Dacron tissue poplin casements and draperies in a variety of prints and patterns by Waverly Fabrics, Golding Decorative Fabrics, Shulman, Walter Fabrics, F. Schumacher and Cohama.

At the end of November, Courtaulds announced a Colorfastness Guarantee for Coloray, its solution-dyed spun rayon. The lifetime guarantee is for draperies which derive their color 100% from Coloray, and assures that they will not fade, streak or run, and will not undergo any color alteration even with the use of chlorine solutions. Emphasizing that the guarantee is for color and not for fabric, Courtaulds is offering it to convertors for any of their draperies in which all colors are 100% Coloray and are so identified. Tags and drapery package inserts will be available.

Upholstery

Easy care and durability are among the features of new upholstery fabrics.

"Self-ironing" Belfast finish is used on slipcovers made by Comfy Manufacturing Co. on display in Chicago this month.

After a falling off of metallic yarns for use in woven curtain, drapery and uphostery fabrics, because they suffered from poor styling and garishness. Metlon Corp. reports, high style fabric designers are again beginning to use metallics in subtle effects which, it is hoped, will influence the mass market. A new use for metallics has been developed, the company further reports. It is in popular hard surface floor coverings, where the yarn is embedded into the plastic material in a confetti-like effect. Known as Wink, the product is used in less rigid plastics for covering dinette and outdoor furniture, table tops, room dividers and wall coverings.

Coair is a new furniture upholstering fabric which combines cloth and vinyl plastic, introduced by the Cotan Division of Interchemical Corp. It is described as a combination of the moisture-absorptive and air-circulating qualities of cloth with the durability of vinyl plastics. In a statement about the fabric, Thomas D. Nevin, sales manager, said, that most fabric designs may be supplied with a patented vinyl protective covering at prices lower than most quality cloth fabric upholstery materials. He added that the new fabric offers no restrictions on furniture design possibilities. Coair is available in a range of colors, jacquard, tweed and stripes; also in custom colors in minimum quantities of 300 yards. Some of its recommended uses are office furniture, leisure furniture, cinema seats, power boat upholstery.

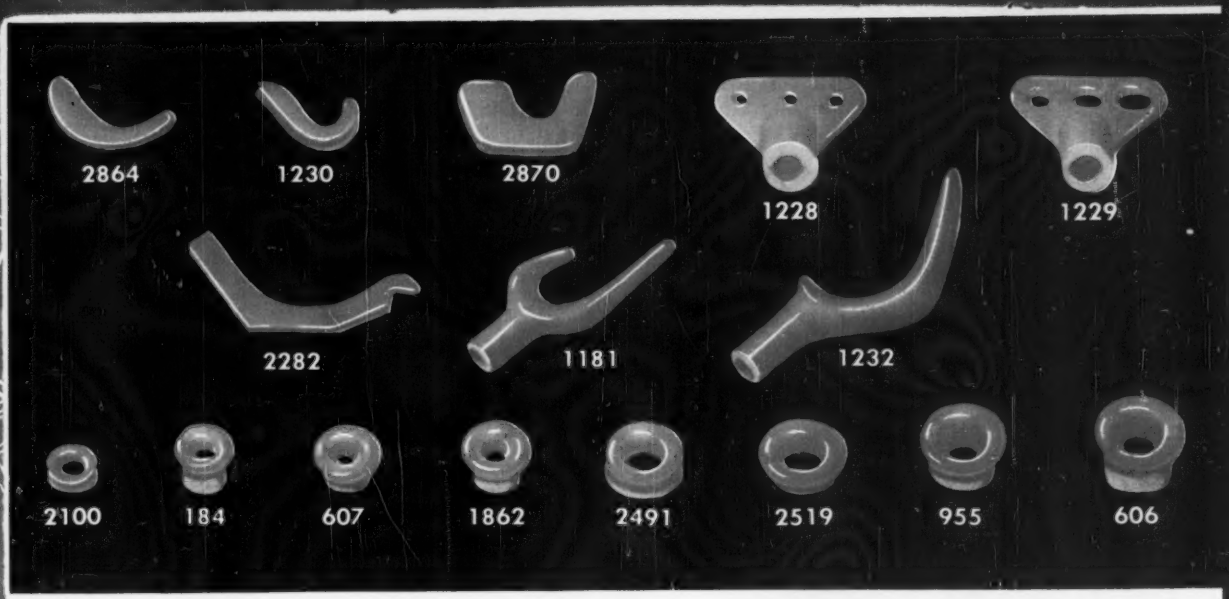
New, permanently non-flammable casement and drapery fabrics, readily serviceable for washing and dry cleaning, have been developed jointly by Virginia Fibre Corp. and The Dow Chemical Co. With warp yarns made from Dow's new Rovana, a saran micro-tape, the fabrics have good resistance to shrinking and sagging, good light stability and are rot and mildew-proof. They also have good resistance to gas fading.

Among new upholstery fabrics displayed at the market was a wide range of cloths made with Allied's Caprolan nylon including textured Caprolan. Allied spokesmen at the Market pointed out that many manufacturers have come to regard non-bulked Caprolan yarns as especially fitted for the styling of both flat and freize coverings for the broad middle price market.

Textured Caprolan fabrics offer unique and unusual textured surface effects with striking depth of color, easy cleanability and good crush resistance. All upholstery fabrics identified as Caprolan or

(Continued on Page 44)

MACHINERY and EQUIPMENT SECTION



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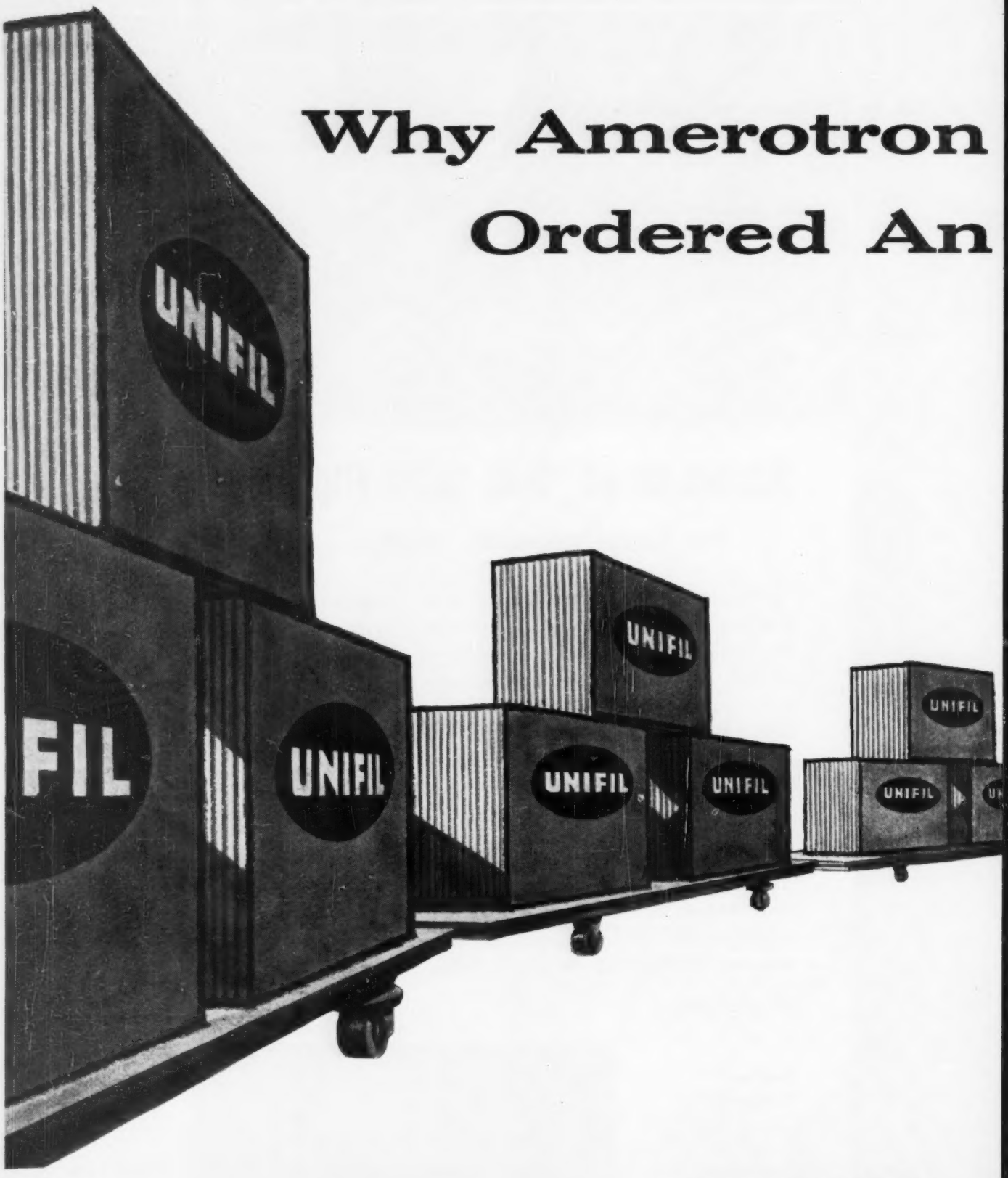
TRENTON, N. J.

Why Amerotron Ordered An



There were three excellent reasons for Amerotron Company's recent reorder for 3200 UNIFIL® Loom Winders. Mr. Robert M. Cushman, Executive Vice President of this leading textile manufacturer sums them up: "UNIFIL Loom Winders already in operation in our plants have improved quality of some fabrics, and have enabled us to run more types of fabric. In addition, they made available more floor space."

It's a typical example. More and more modern weavers are evaluating, accepting, and reordering UNIFIL Loom Winders. They're depending on the advantages inherent in this advanced method of filling yarn preparation for the *extra* capabilities today's weave rooms need. UNIFIL Loom Winders efficiently and economically consolidate quilling and weaving at the loom... provide all the advantages of weaving-from-a-cone, on all types of yarn, both natural and synthetic. They greatly improve the quality of some fabrics and they give fabrics with textured yarn filling a uniformity not possible before. They're constantly opening profitable new markets for weavers everywhere.

Why not let a Leesona "Profit Factor Analysis" show you how UNIFIL Loom Winders can improve *your* weaving operations. For details on this informative survey, contact your Leesona Sales Engineer in Boston, Philadelphia, Charlotte, Atlanta, or Los Angeles. In Canada: Montreal or Hamilton. Or write LEESONA CORPORATION, P. O. Box 1605, Providence 1, Rhode Island.

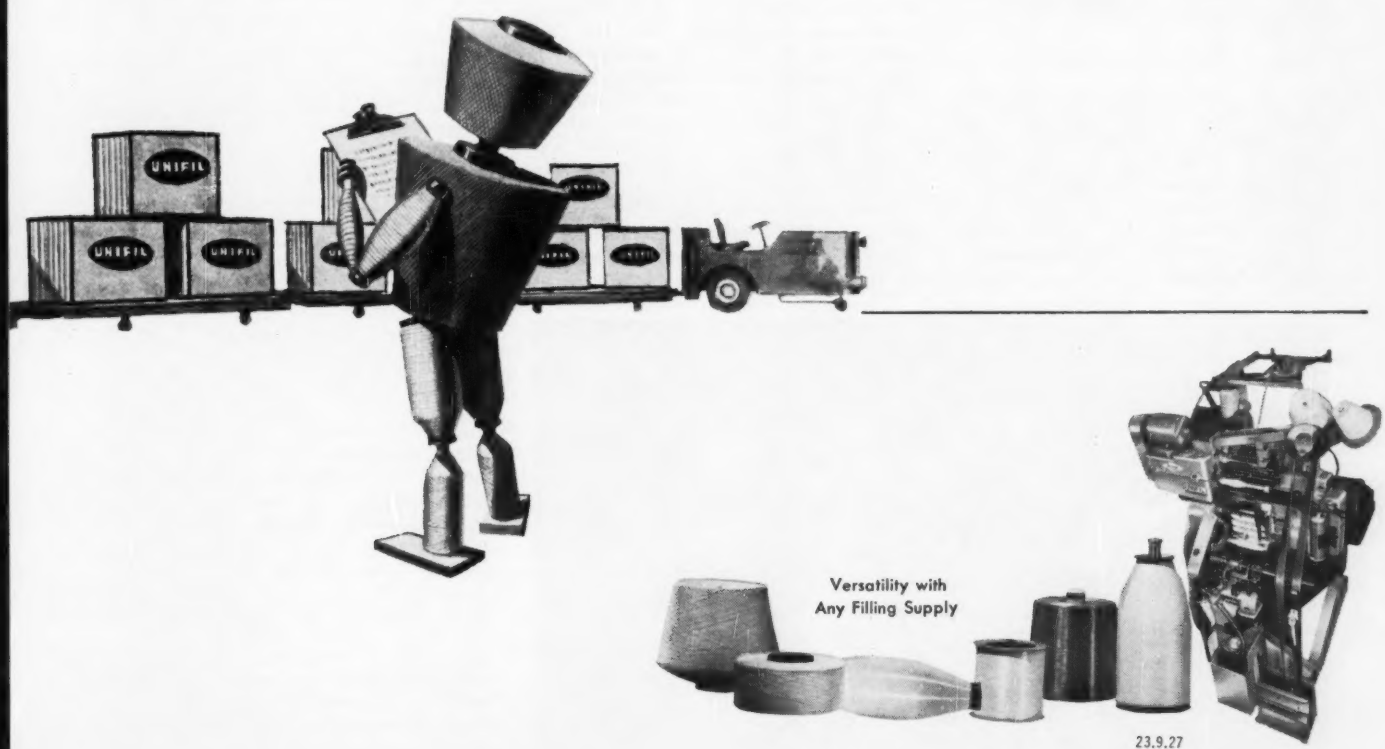
23.9.27

Additional 3,200...

Here are just a few of many modern mills which are saving with UNIFIL Loom Winders:

J. P. STEVENS & CO., INC.
PONEMAH MILLS
DRAYTON MILLS
JUDSON MILLS
UNITED MERCHANTS & MFRS., INC.
GLEN RAVEN SILK MILLS, INC.
BURLINGTON INDUSTRIES, INC.
EXPOSITION COTTON MILLS CO.
GREENWOOD MILLS
FRANK IX & SONS, INC.
MARION MFG. COMPANY
WILLIAM SKINNER & SONS
STRASBURG TEXTILE MILLS, INC.
AMEROTRON COMPANY
WOODSIDE MILLS
SPARTAN MILLS
RICHARD TEXTILES
CADILLAC TEXTILES, INC.
CANADIAN CELANESE, LTD.
CHRYSLER MILLS, INC.
CONSOLIDATED TEXTILES, LTD.
KALCO WEAVING CORP.
MARVEN LOOMS, INC.
PAXON FABRICS CORP.
PANSY WEAVING MILLS
PEPPERTON COTTON MILLS
RIVERSIDE MILLS
BERKSHIRE HATHAWAY, INC.
STANWOOD MILLS, INC.
STARR MILLS CORP.
WAUMBEC MILLS, INC.

LEESONA



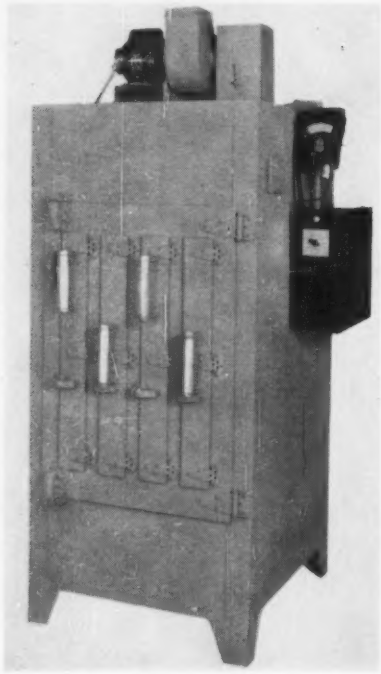
Versatility with
Any Filling Supply

23.9.27

NEW MACHINERY EQUIPMENT

Textile Testing Oven

A special oven for testing resin and ink drying on cloth samples and also for testing thread and cloth samples where many drying applications are involved, has been developed by Despatch Oven



Textile Testing Oven

Co. The oven has a maximum temperature of 450 degrees F. It is electrically heated, has a temperature indicating controller and a special convection heating system which provides accurate heat control to every inch of the work chamber. *For further information write the editors.*

New Lab Instruments

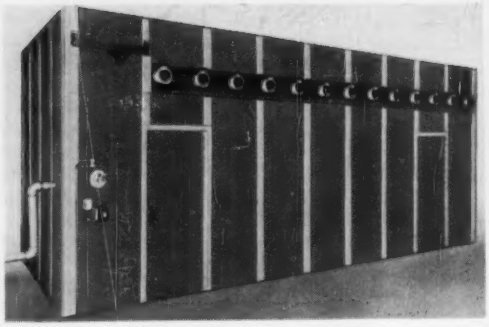
Three new instruments have been announced by Hunter Associates Laboratory, Inc. The first is a precise, digital-dial color and color-difference meter intended primarily for small color differences found in the paint, paper, plastics, textile, ceramics and food industries. It employs tristimulus filters and vacuum phototubes thermostatted for maximum stability.

The firm's new whiteness reflectometer is for measuring the whiteness, reflectance, yellowness and opacity of white and near-white paints, papers, textiles and plastics. The instrument uses paired vacuum tubes in a null Wheatstone bridge circuit.

The new photoelectric glossmeter introduced by the firm has been designed for papers, paints, plastics and textile yarns, fibers and fabrics. For textiles, the new instrument will measure contrast gloss (called luster) of yarn, fibers and finished fabrics. *For further information on all three products write the editors.*

Turbo Machine Bulletins

Three new bulletins describing new machinery and equipment for the textile industry have been published by Turbo Machine Co. Described in detail respectively in the bulletins are the firm's model FS-60 synthetic setter for setting synthetic fibers in cans, in baskets or in bobbin racks; the model DC crimper designed for low-stiffness, easily bent fibers; the model FS-96 fiber setter for thermosetting modified filament sweaters. *Copies of the bulletins may be obtained by writing the editors.*



Resin Curing Unit

Resin Curing Machine

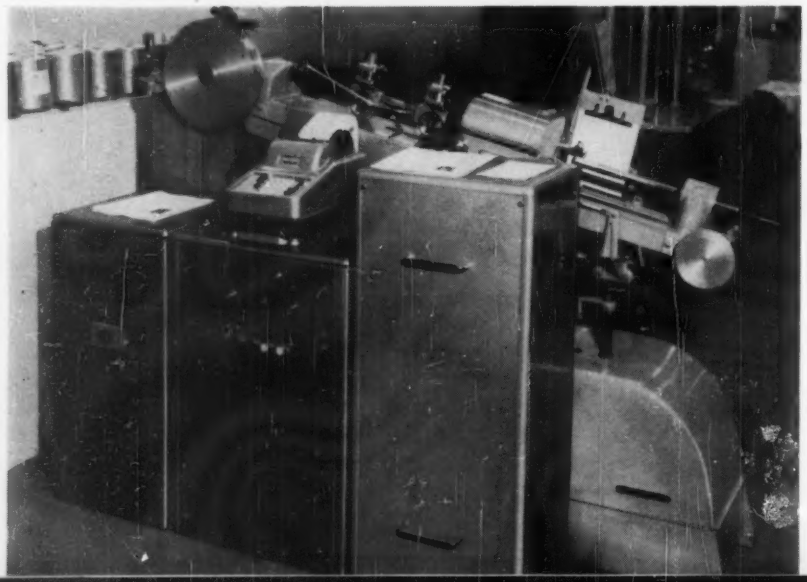
Adams-Zeller Corp. has made the first installation of its new roll-type curing machine for resin-type finishes, at Allied Textile Printers. The machine operates in a finishing range at 60 to 65 yards per minute. After drying on a tenter frame, the resin-treated cloth enters the Adams-Zeller machine where it is cured in about three minutes. The cured goods are delivered to a rotary cutter-winder for wind-up. In the Adams-Zeller machine, centrifugal blowers discharge air heated by gas burners into a plenum chamber. *For further information write the editors.*

Floor Type Power Perch

Birch Brothers, Inc., is marketing its new model 5 power perch or burling table. A modification of the firm's model 2 ceiling perch, it can be floor mounted. Basic equipment includes: adjustable angle inspection table; forward and reverse feed rolls; automatic reversing clutch; bottom of table "forward-stop-reverse" control; constant speed drive; all necessary guide rolls; swing folder; prewired for immediate connection to power source. Many optional features also can be obtained with the model 5. *For further information write the editors.*

Automatic Yarn Tester

Scott Testers, Inc. has developed the "Scotamatic", device, making commercially available complete automatic testing of yarns and cords in the tensile range up to 50 pounds. The Scotamatic operates unattended, once the operator has introduced a sample of yarn or cord. Recording and evaluation of test results are in three values: 1, stretch at a predetermined point of load; 2, ultimate tensile strength, and 3, ultimate elongation. The tabulator summarizes the individual values at the completion of each 10 tests. *For further information write the editors.*



"Scotamatic" Yarn Tester

Robert T. Stevens

(Continued from Page 22)

throughout the textile industry a deep and very special respect even from men and women who have never met him or done business with his company. For textile people, he is a venerated leader whose leadership rises above the world of textiles as such and passes on to the higher plane of great national issues—issues in which the fate of America and indeed the whole free world is at stake.

AN OLDER GENERATION—At the Nathaniel Stevens celebration in 1941, the camera also caught (left to right) Horace, Moses and Nathaniel Stevens

They see in Robert Stevens a man who on the fateful day of Pearl Harbor had only a day earlier completed an arduous course at the Command and General Staff School at Fort Leavenworth; and who on the next day volunteered for service in the Army. They see in him a man who served as Secretary of the Army during those tragic and hardpressed days of the Korean War.

They see in him the man who "stood up to that fellow McCarthy" in public testimony televised before the eyes of the world for a total of 37 hours, patiently, reasonably, explaining and defending the record of the executive department he headed. Robert Stevens is textiles' ambassador and spokesman to the great world outside the narrow realm of purely business interests. He is the textile industry's living example of its awareness of its duty to the nation and the free world.

For the 32,000 workers and management people of the huge J. P. Stevens organization he is a wise and self-effacing leader, a man with a wonderful ability to get men to work at the highest pitch of their capacities. Although Stevens insists upon giving most of the credit to others, it is a fact that under his stewardship, J. P. Stevens in three decades has forged ahead to become a large publicly held corporation, excellently equipped to maintain its position in the bitterly competitive, rapidly changing textile picture.

A Combined Effort

In his three decades as president, he has guided J. P. Stevens safely through the economic shoals and storms that have sunk so many other fine old New England family-owned textile outfits. He has seen—with the help, he is the first to point out, of his brother John P. Stevens, Jr., and many others too numerous to mention here—the old house of Stevens grow into a modern, publicly held corporation putting into successful practice the accepted principles of scientific multi-plant corporate management.

The leadership of this huge and diversely complex manufacturing company is borne with wonderful resilience and easy cheerfulness by Robert Stevens now in his 61st year. He is a busy man, of course, a man whose time, because of the great demands upon it, is carefully rationed. But he manages to give the appearance of not being in a hurry. It has always been his practice to be easily available to his key marketing and production men in his office at 1460 Broadway in New York. It is also his custom to keep in close personal touch, by frequent visits, with the Stevens manufacturing plants. He does this by the simple but arduous practice of going out to see them at frequent intervals, to walk through them and talk with their managing people and working staff.

But of all his duties as president of the company, Robert Stevens places customer relations—in other words, selling—highest on the list. When his company arranges, as it often does, tours of Stevens' plants by groups of customers sometimes numbering as many as 100, Robert Stevens is on the spot—be it Virginia, the Carolinas or Massachusetts—to greet them personally and personally accompany them through the long vistas of spinning frames and looms until the tour is ended.

Puts in Long Days

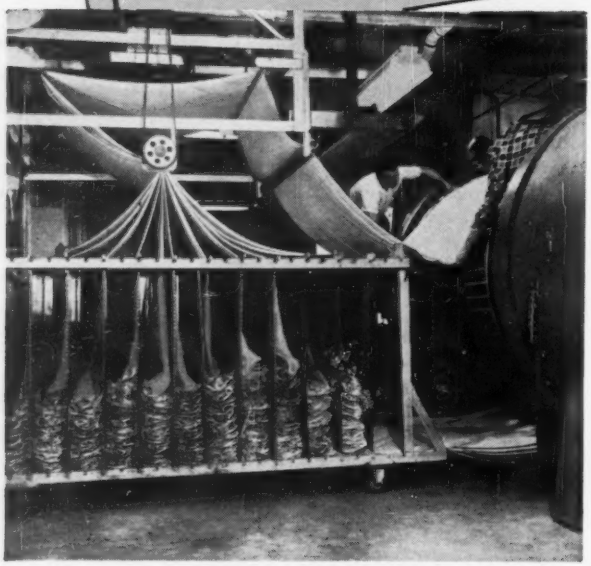
When in New York, Stevens manages to get a great deal of work done each day by the simple expedient of starting early and working until well after five. It is his practice to get up at six in the morning, drive into New York from his home in Plainfield, put his car in the parking lot on the top of the Port Authority Building at 40th Street and Eighth Avenue and then walk to the office, stopping for breakfast somewhere along the way. It is a practice, he says, that enables him to chat with a good many Stevens' customers just by chance meetings in a part of the city where converters and garment manufacturers crowd the streets. Sometime around six in the afternoon, he is apt to call it a day, reclaim his car and drive home to a late dinner and early bed.

Aside from his business and his work for such causes as the Layman's Committee of Religion in American Life of which he is chairman, Robert Stevens does not have many other interests. In summers and sometimes for short periods during other times of the year, he flies with Mrs. Stevens to his ranch in a valley in Montana where he rides horses, fishes and just sits around getting the soot and nervous excitement of New York out of his system.

More than 35 years' experience in the textile industry gives Stevens a perspective for viewing the future. He sees that future, already coming over the horizon fast, as a time of challenge, a time of great opportunities for textile manufacturers. The next decade, he thinks, will contain more surprises, more changes, and more progress than the preceding 30 years in textiles.

The new manmade fibers, the improvements in natural fibers brought by research, the new advances in machinery and chemical finishes all will combine, he believes, to make textiles faster moving and more pregnant with opportunity for profits and service to consumers. Textiles today, he says, stands on the threshold of tremendous changes. It is his determination that J. P. Stevens & Co. will advance to meet these changes and master them for the good of its customers and the profit of its stockholders. ■

ANOTHER CHAPTER IN THE



New Barotor High-pressure
Dyeing Machine now in production

"KENYON OF KENYON, RHODE ISLAND"

THE Kenyon PIECE DYEWORKS, Inc.

125 WEST 41st ST., N. Y.
TEL. OXford 5-2060, 5-2061

NEW FABRICS

NEW YARNS

Dynel-Rayon Hopsacking

A new Dynel-blend Bondyne fabric has been included in the fall line of slacks of Levi Strauss and Co., according to Union Carbide producer of Dynel. The special Bondyne hopsacking by Reeves Brothers is marketed under the trademark "Topsack." The fabric is a 14-ounce blend of rayon, acetate and 30% Dynel in the filling. Advantages of the Dynel fill in the Topsack fabric are: receptiveness to heat, to permit good press retention; price competitive with those of other synthetic blends. The hopsacking is an open basketweave ply yarn fabric, suitable for year-round wear. *For further information write the editors.*

New Elastic Vinyl

An elastic vinyl upholstery material with a high sheen and rugged enough to withstand the abuse usually handed out to furniture in offices, hotels, banks and other commercial establishments, has been introduced by Columbus Coated Fabrics Corp. Marketed as "Milano," the new product is a laminated material. The vinyl face of the new material is based on Pliovic, a resin produced by the Chemical Division of The Goodyear Tire & Rubber Co. An elastic knit fabric backing is reported to give tear strength while the elasticity of the materials assures clean, smooth lines. Through special compounding and detailed embossing, the material is said to achieve the shimmer of silk. *For further information write the editors.*

Creslan in Knit Goods

A new textured yarn containing American Cyanamid's Creslan acrylic fiber is used in knit coordinates by Dalton of America in its James-Kenrob collection. The coordinates have been introduced for holiday-spring selling and are available through prestige department and specialty stores. *For more information write the editors.*

Improved Work Gloves

In announcing a complete line of vinyl coated fabric work gloves, aprons and sleeves designed specifically to resist chemicals, Martins Ferry Glove Co. gives special attention to its Polytex gloves. They contain a compound based on Pliovic AO, Goodyear's vinyl chloride copolymer which imparts chemical and abrasion resistance. Polytex gloves come in three basic styles—hard top, knit wrist and gauntlet and in different lengths; all are jumbo size and feature curved fingers. *For further information write the editors.*

Tycora in Women's Slacks

The first women's slacks and shorts of new Tycora washable flannel have been introduced for holiday and resort season selling by Moyer Co., a men's sportswear manufacturer. Previously ready-to-wear fabrics of Tycora yarns have been confined to women's blouse fabrics and men's lightweight suitings. Features of the women's slacks, says the makers, are "washable as a terry towel," sleek tailoring, proportioned fit, 10 colors. *For more information write the editors.*

New Metallic Yarn

Metlon Corp. has developed Woodtone Mylar, a new type of decorative yarn which simulates the bamboo stripes used in woodweaves of all types. The new yarn also is being used for textured drapery fabrics and in sheet curtains. Interest in the new product is primarily in the wider widths of ⅛ and 1/16-inch. *For further information write the editors.*

Recent TDI Bulletins Available

A number of bulletins on subjects of importance to members of the Textile Distributors Institute and others engaged in fabric distribution and manufacturing have been prepared in recent weeks by the staff of the Institute and its legal counsel.

Bulletin 2203 reports on a significant decision of the U. S. Circuit Court of Appeals in New York, which suggests that the federal courts, in cases involving arbitration, will apply a new body of Federal Law and will not necessarily follow state precedent.

Bulletin 2204 outlines the action that must be taken by cutters in order to comply with the requirements of the new Textile Fiber Products Identification Act which becomes effective March 3.

Bulletin 2202 provides a summary of certain recent interpretations of the Textile Fiber Products Identification Act which were obtained from the Federal Trade Commission in response to numerous questions raised by TDI members as well as other persons on matters which affect the converting and distributing trades.

Bulletin 2206 reports on some new developments in the use of a written contract. The bulletin discusses certain recent contracts offered piece goods distributors which contain clauses that could be very troublesome.

Bulletin 2207 presents a digest of the recently enacted Labor Law amending the Taft-Hartley Act, effective Nov. 13, 1959. The digest was prepared by TDI's legal counsel.

Copies of these bulletins are available to members of the Institute and to textile distributors, mills, garment manufacturers and other interested persons as a free service offered by the Textile Distributors Institute. Persons who wish to obtain copies of these bulletins may do so by writing on company letterhead to Miss Hilda A. Wiedenfeld, Executive Director, Textile Distributors Institute, 469 Seventh Ave., New York 18, N. Y.

Imports Must Be Labeled

Textile imports which do not meet requirements of the Textile Fiber Products Identification Act, which becomes effective March 3, 1960, will be barred by U.S. Customs. Harvey H. Hannah, chief of the Federal Trade Commission's Division of Textiles and Furs, said that all imported textiles will be subject to the act. Labels of textile products manufactured or processed abroad must give the generic names of the various fibers in the product along with their percentage by weight, the name of the country where manufactured, and either name of the foreign exporter or manufacturer, or the name of the domestic importer or the latter's registered identification number.

Goods imported in the gray and finished here also must have this information on labels when the finished product is marketed in this country.

Hannah said that since FTC jurisdiction does not extend abroad, responsibility for a misbranded product lies with the importer. Also, an importer may not bring in unlabeled goods and add labels thereafter. All such labels and invoices must be included on import, otherwise the goods will be turned back by customs.

FTC to Explain Label Law

The Federal Trade Commission early in 1960 will issue three separate pamphlets explaining the operation of the new Textile Fiber Products Identification Act. FTC, it was indicated, will publish one booklet for retailers, another for cutters and a third for mills and converters. Each will present, in question-and-answer form, the most frequent problems brought to the attention of the commission. *To obtain copies of these pamphlets at nominal cost, readers are invited to write the editors.*

Miss Blunt on New Job

Irene Blunt, former executive director of the National Federation of Textiles, is now working on a Government survey to discover new uses for textiles. Miss Blunt is serving as special consultant to the Textile and Clothing Division of the Business and Defense Services Administration, U.S. Commerce Department. The survey is being financed out of the $175,000 Congress appropriated last session for the new Interagency Textile Committee.

Burlington Gets Princeton

Ownership of Princeton Knitting Mills has passed to Burlington Industries, Inc., it was announced recently by Max Doft president of Princeton. Princeton is a producer of knitted pile fabrics for coats, linings and rugs. The company also makes knitted fabrics for dresses, sportswear, underwear, shoes and industrial uses. Its plants are in Watertown and Waterbury, Conn. Although no sales figures have been disclosed, it is believed in the trade that the firm was doing a recent annual sales volume of $21 million.

Changes at Richelieu

Herbert B. Feit, vice president of Richelieu Fabrics, Inc., has been assigned additional duties as secretary of the corporation and as a member of the board of directors. Everett Anderson has joined the company as general office manager and as converting specialist. He was formerly a principal of E. H. Anderson Co.

Stevens' Talk Reprinted

A recent talk given in New York at a meeting of the Textile Salesmen's Association by Robert T. Stevens, president of J. P. Stevens & Co., Inc., has aroused considerable interest. Copies of the talk entitled, "Our Shifting Exports: From Products to Jobs?" may be obtained from the Textile Distributors Institute, 469 Seventh Avenue, New York 18, N. Y.

EASY TO CUT—This quilted batting of Du Pont Dacron polyester fiberfill is used to make seat cushions. It cuts easily and accurately to desired size

Textured Caprolan must be certified by nationally recognized testing laboratories under Allied's "Certified for Performance" program. The program requires fabrics to show proof of performance on such standards as color fastness and stability, cleaning, texture retention and crush resistance.

Domestics

New fibers and fabrics in domestics also continue to appear in answer to consumer demand for more practical and better looking items for the home.

Polyurethane foam mattresses and pillows are now being introduced to the nation's consumers. Comparing them to foam rubber, John J. Reed, market development manager—Isocyanates, Allied Chemical's National Aniline Division, said: "They are more comfortable, lighter, more durable and dry-cleanable . . . polyurethane foam bedding lacks the bouncy 'fight-back' characteristics of conventional foam and the fabric covering can be dry cleaned or laundered, without damage to the pillow or mattress . . . Also polyurethane foam has twice the tensile strength of foam rubber." He predicted that the bulk of the polyurethane foam mattresses produced in the future would be fully molded.

Another new kind of mattress has been developed by the William Intner Co. with technical assistance from Du Pont. Said to be firm yet soft, it is made of a thick layer of Dacron fiberfill over one of several firms cores, with an outer casing of polished cotton quilted with Dacron fiberfill. The inner cores may be cotton felt, 70% cotton felt with 30% horsehair or six-inch foam rubber. It is available with box spring to match pink, beige or maize cotton covers of the mattress, in any size.

Dacron fiberfill is also used in a new cushioning pad called Mattressette made by Barclay Home Products. In announcing the product, Du Pont pointed out that it is made with shaped sides to fit snugly over the mattress; can be washed and dried by machine, since the filling doesn't shrink or mat down when washed and dries quickly, and that it is non-allergenic and odorless.

Still another new use of Dacron fiberfill is crib comforters by American Needlecrafts, baby bunting comforters by Barclay-Freitag, and personalized baby comforters by Monotex—all washable and very soft.

The first electric blanket to be made 100% of an acrylic fiber—containing Du Pont's Orlon—is on the market. Made by Beacon in six colors, twin and full sizes, the new blanket has a soft, luxurious look which it retains through repeated washings, Du Pont reports and is light in weight.

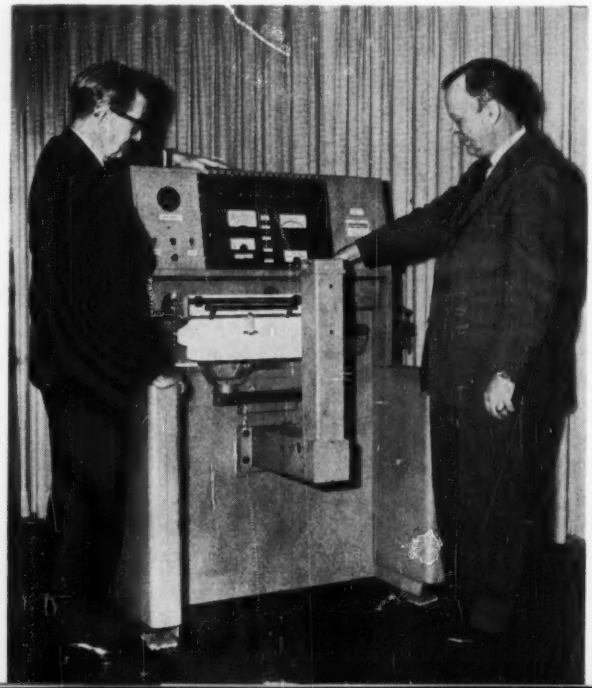
A bright plaid blanket of 100% Orlon with fringed edges, suitable as a car robe, grandstand blanket or on a bed, it is made by Faribault Woolen Mills. Called Glengarry, it comes in its own carrying case which opens up to make a cushion for stadium seats.

Decorative pillows have set new fashions at this month's market. Luxurious fabrics with the look and hand of silk were prominent, with corduroy and casual styles getting less attention than the elegant items. Prices are up somewhat as a result of emphasis on finer fabrics.

New Wash-Wear Standards

A new electronic test instrument—called the Smoothness Evaluator—is the central feature of a new wash-and-wear quality program announced by the Sanforized Division of Cluett, Peabody & Co., Inc. Up to the present, according to Robert M. Dowling, vice president, the only means of measuring appearance of wash-and-wear fabric after washing has been human judgment. The new instrument measures electronically with an "electric eye" and leaves no room for vagaries of the human eye, according to Dowling.

Five standards have been set up under the new quality control program: smoothness after washing (as measured by the Smoothness Evaluator), crease resistance, shrinkage, tensile and tear strength. A new trademark, "Sanforized-Plus," has been created to identify fabrics approved by the Sanforized Research Laboratories, which meet the standards and conform to the test requirements. *For further information write the editors.*



HOW IT WORKS—Robert M. Dowling (left) and Ben A. Alford, director of licensee services, discuss the operation of the new electronic test instrument.

PAPERS OF THE
AMERICAN ASSOCIATION FOR
TEXTILE TECHNOLOGY INC.®

A A T T

Trends in automotive fabrics

By W. E. Belanger
CHRYSLER CORP.

TEXTILE materials are an important component of automobiles, and a great deal of effort goes into the development, selection, engineering and styling of fabrics used in modern automobiles. The number of materials and various combinations of fibers used to create interesting effects is many times what it was ten years ago. This indicates a dynamic, rather than stable, situation with respect to interior trims and fibers which comprise them. Also, with increased emphasis on styling, the former price limitations for fabrics have become less rigid.

An unbelievable amount of time, effort, and money is expended by the auto industry in an effort to produce car interiors that not only are in keeping stylewise with the exterior appearance, but are as well engineered as are the motor and running parts of the car. The fact that the Chrysler fabric styling studio employs a full time fabric engineer is significant proof that they consider the practicality of the fabrics they select as strongly as they consider their appearance. Because the fine engineering of modern automobiles is taken for granted by the average car owner, he is perturbed by such things as failure of the car to start, door handles that do not work, fabrics coming apart at the seams, seat springs that sag, and carpets that wear out within a few months.

Few men buy cars today without bringing their wives along to pass judgment on their selection. Women who are constantly scanning magazines that deal with the intelligent selection of what's proper in furniture and apparel from a styling point of view are not likely to allow their husbands to select an auto that has an interior that is not well coordinated colorwise and stylewise.

How does the automobile industry make decisions on interior trims? As long as a year and a half before a car is produced, the styling experts of the automobile manufacturer begin to accumulate numerous samples of trim fabrics of every conceivable type and style from every conceivable source.

The mills rely heavily on automotive fabric stylists to give them styling ideas and keep them abreast of what will be needed in the way of color and pattern effects. Many of the swatches brought in by mills are clippings from fabrics used in other fields here and abroad. With the help of the automobile stylist, these swatches are restyled and resubmitted in automotive quality.

The problem of selecting the most interesting styles from the many possibilities—there may be as many as one thousand samples submitted—belongs, generally to the chief stylist and his staff in charge of interiors. A screening show is generally held with styling management in attendance. This first screening may eliminate 90% of the one hundred or more swatches originally submitted, usually leaving two or three selections for each model of cars.

The next step in the selection process is a preliminary style show held for each division of a company.

W. E. Belanger

W. E. Belanger is a fabrics engineer for the Chrysler Corp. A graduate of Lowell Technological Institute, Belanger was employed by Dan River Mills for three years as a dyer. Later he worked in the Textile Research Department of American Viscose Corp. He joined Chrysler in 1957. In his post he is responsible for all decorative fabrics used by Chrysler in its autos.

Presented at the Nov. 4th, 1959 meeting of the American Association for Textile Technology at New York, N. Y.

Top executives representing each car manufacturing division meet with the head of the fabric styling studio and the chief stylist. Their purpose is to review the swatches which have successfully passed previous screenings. Many of these swatches may not be of automotive weight and, in some instances, only drawings of designs are included.

At this stage, a year or more before production time, the principal purpose is to establish the general direction for the final styling of the car interior.

Interior Styling personnel, who are working on the style and design of the seats, express their ideas on the cloth designs that will best compliment the designs of the seats they are contemplating. At this point in time, the interior styling people are preparing the many styling drawings (called renderings) that will be used by styling management to sell their ideas.

Taking a First Look

The fabrics that they see at this first showing help them to decide whether the seats will have buttons, or whether they will be pleated or vulcanized; what shape the cloth inserts will have and how much emphasis to place on the cloth by varying the amounts of cloth used. The color stylists will also decide at this time what color emphasis will be placed on the cloth or the vinyl bolsters that usually are sewn to the cloth and surround it.

Athough the price of a fabric is not a principal consideration at this meeting, division management may reject a fabric on this basis. The management of each specific car division has an idea as to how much money can be alloted for trimming purposes. This figure may be based on the cost of trimming of the previous year's model, and an effort made to keep within the same budget.

After the first showing, the mills are asked to supply twenty yards or more of each of the materials under consideration. This is necessary because those fabrics which are considered to be the most likely selections will be used to trim cars to present a more realistic display for the second style show. These fabrics, when they are received, will be tested by our laboratory.

When a fabric not of automotive weight or construction is selected at the first style show, the mills are asked to bring it up to expected standards while maintaining appearance. Members of the automotive industry may spend months in cooperative effort with the mills to achieve success in this respect.

Before the Jury

Reports of test results on fabrics are received from the laboratories by styling and trim personnel. The various management groups of each car division are not directly informed of the success or failure of a particular piece of goods and generally have little to do with this phase of the operation. When management is asked to review the fabrics again for final decision, it is assumed that all samples submitted to them for inspection are suitable for use.

When the second style show is completely arranged, the top division executives and various department heads are invited. Included in this group may be the division general manager, advertising manager, product planning manager, sales manager and several others. At this point, all questions of price and performance usually have been settled, and appearance is the principal basis for judging.

At the end of the show, there are generally two or three fabrics which are not eliminated. If a cloth is selected which was in bolt form, it is immediately trimmed into a seat or car mock-up. The division management and stylist then decide which of the fabrics to use.

After selections of fabrics are finalized, the fabric styling people proceed to master them in all colors desired. This is a long, involved procedure and is complicated considerably by the many tests performed by the laboratory in order to determine the performance characteristics of each cloth.

It is not feasible to list here every test situation, but generally, all companies employ laboratory tests for *wear resistance, color permanence, soil resistance, stretch and tensile strength.* In addition, some companies test for other attributes such as resistance to water spotting, bleeding, etc., when these are important for specific fabric applications. Performance is also observed under actual field conditions.

The bulk of our fabrics are made up of either solution-dyed black nylon warps or nylon warps dyed with extremely fast-to-light nylon dyes. Our filling yarns are either solution-dyed rayon or rayon dyed with the best dyestuffs available. Generally, we are quite satisfied with the light fastness of our fabrics, but we would like to use more piece-dyed fabrics than we are presently using. As soon as piece-dyed fabrics show better general light fastness and dye uniformity from shipment to shipment, we will take more advantage of the flexibility that they furnish.

Questions of Color

The solution-dyed yarns that we now use, and the carefully selected dyestuffs used to color the yarns and fabrics that are now dyed, are adequate from the point of view of flexibility. That is so because we try to use common colored warps and pick solution-dyed fillings that are standard colors in the textile industry in order to get flexibility.

Textile chemists bring out hundreds of new dyestuffs every year, some of which are formulated to meet our requirements and these help a great deal in our planning.

When the textile industry develops new fibers like polypropylene, polyethylene, nylon, rayon and the like, would it not be a good idea to develop a fiber that is transparent so that we can use it for making our warp face fabrics? Would it then not be possible for us to simply change our filling colors to change the color of the fabric? It would be even more helpful if this transparent warp yarn were made in such a way that it could be slightly tinted to allow us to control the overall color of the fabric infinitely. And, by the way, such transparent yarns would save us a lot of trouble with sewing threads. Maybe we wouldn't have to color-key all of the sewing threads we use if they could get their color from the fabrics they hold together.

Wear resistance is a property that we are able to achieve quite adequately. We are now using filament nylon as a tool for getting the type of wear resistance that we want. But to be perfectly candid about it, we feel that this tool is an expensive one. We are looking seriously for other fibers to use that will give us wear resistance more economically.

The fabric stylist is not completely happy with the fact that primarily he must use filament nylon warp face fabrics. He would much prefer to use filling effect fabrics with the texture and hand that spun yarns can produce. The fabric stylist is well aware

also that he can get the required seam strength more easily with fabrics that are made up of spun yarns than he can with fabrics constructed with filament yarns. We have unsuccessfully tried various finishes for increasing abrasion, but we still believe that much can be done in the development of finishes for increasing wear resistance.

We believe that some of the newer, less expensive fibers such as polypropylene, will be of great help to us when they are developed to the point where they can be dyed.

What we really need is a means of evaluating accurately and quickly in the laboratory how well a fabric will wear in the field. We would be more than willing to cooperate with the textile industry to help develop an accurate, quick test for evaluating the wear life of a textile fabric in an automobile.

Wanted: More Elasticity

Elasticity is another property that we feel is important. The fabrics we are presently using generally lack elasticity. This is the reason some automobile seats exhibit wrinkles. We go to great expense to pleat, or vulcanize to rubber pads, or sew seats to eliminate this wrinkled condition. It would be much simpler and more economical if we could use cloth with more elasticity. Not only would the seats look better after use, but they would also last longer because the seams would not take so much strain. A fabric that would stretch and have 100% elastic return would be much easier to trim and would tailor much better.

Such elasticity is a fabric characteristic we want but have not really put much effort into developing. Possibly, what is needed here is a comprehensive study of fabric construction and the mechanics of trimming seats. A fabric cut on the bias can be stretched and has elastic recovery. A knit fabric certainly has stretchability and good recovery. We have been doing some development work with knit bodycloth fabrics that looks quite promising. The use of knit goods, properly constructed, might give us the elasticity we want, and also solve some of our problems in ease of handling, raveling, seam strength and tailoring.

Where Fabrics Go

The general categories that automotive soft trim fall into are: sidewall materials, headliners, bodycloths and carpets. Sidewall materials are the external covering for the sides of the automobile interior, including covering on door panels and posts. Except for cars in the higher price ranges, the only textile material used presently are vinyl-coated fabrics. The more luxurious cars use door panel inserts made of cloth that is the same as the cloth used in the seats. My guess is that this usage will continue and probably will not be increased in the foreseeable future.

Headlining is the external cloth covering on the ceiling of the interior of the car. About 12 million pounds of headlining materials were used by the automotive industry in 1958. This poundage figure is stated to give some idea of the importance of this end use of textile materials. This year the amount of textile material used for headlinings will not be as great proportionately because many of the cars produced will not have textile materials in the roof. Chrysler is presently using four kinds of headliners; cotton cloth coated with vinyl and perforated, polyurethane foam, dobby weave cotton cloth, and perforated cardboard.

An ideal headliner should have the following characteristics:

1. Appearance
2. Soil resistance
3. Permanency of color
4. Elasticity for ease of handling
5. Shrinkability
6. Moisture resistance
7. Sound transmission or sound absorption

My guess is that future cars will be built with less woven textile materials than are now being used. We will probably use more expanded or foam type plastics. Nonwoven materials will be developed for this end use, and certainly the perforated hardboard types will enjoy wider usage. This headlining area is one that bears close scrutiny by textile people and they will find a good response to any sensible new ideas on how to solve our problems with it.

Bodycloth, or upholstery material, is the external covering for seat backs and cushions. Over 60,000,000 pounds of upholstery materials were purchased for use in the 1958 passenger cars. Of this poundage, 40% was vinyl and about 20% was cotton, used as backing for vinyl. I think, that for the next four or five years, we will continue to use the same types of fabrics that we are using today with a few exceptions. Some of our fabrics will be knit instead of woven. New fibers will replace some of the rayon and nylon now used. Printed fabrics will replace some of our yarn-dyed fabrics. Nonwoven fabrics may even come out from behind the vinyl films now covering them and appear as attractively printed and embossed bodycloths.

No More Stitching

Within the next ten or fifteen years we may eliminate sewing as a means of holding pieces of cloth together. Most of our cutting and piecing together of fabrics to cover seat shapes will be eliminated by bodycloths that can be moulded to fit. Some of our people are even now thinking of electro-luminescence as a means of obtaining color styling effects with bodycloths.

Textile men are aware that the last ten years have brought about some drastic changes in bodycloths used in automobiles; but they also know that there is virtually no difference in the manner in which these materials are cut, sewn, and trimmed. What we are looking for and what we will find are technological advancements in the maufacturing of bodycloths that will enable us to modernize our seat trimming methods.

Sewing, as a means of holding two pieces of cloth together, is more primitive than riveting as a means of joining metal sheets. Somehow, we are going to find fibers and yarns to fabricate bodycloths than can be shaped by moulding methods and joined by welding or heat sealing.

Carpets that are used for automobiles, which are now fabricated by tufting rayon yarns into jute, will be continued for some time. We will, of course, take advantage of any longer wearing fibers that come along and fall into the rayon price range.

Most of our carpet development work has been directed toward examination of various cellulosic fibers available and how they compare for wear in a standard construction. Much can be done to improve wear by the manipulation of tuft length, number of tufts per unit area and type of rayon staple used.

The ability of a carpet to withstand wear is a difficult property to measure, especially when every year we introduce new variables that effect wear in an automobile. My guess is that, eventually, a method of making carpets will be found that is so economical from a manufacturing point of view that is will enable us to use carpet nylon as a tool to get better wear resistance, light fastness, and resistance to crushing and matting.

Automotive fabrics are subjected to extremes in temperature, sunlight exposure, humidity, tensile stresses, abrasive wear, and they even have to be child proof. It is a tribute to the textile industry that it has made these fabrics in such a way that they meet and even surpass the end use requirements for automobiles.

Discussion

Following the presentation of Mr. Belanger's paper there was a discussion period with questions submitted by members of the audience for the speaker to answer. The following is a summary of some of these questions and answers.

JOHN ZULCH (Wellington Sears): Will there be a tendency away from vinyl in auto seats this year?

BELANGER: I think our engineers would like to use more vinyl, but they can't because they want auto seats to be comfortable. They want them to absorb moisture and be cool to sit upon. I think that we have just about reached the point where we cannot put more vinyl in seats and still have them comfortable.

PETER KORMOS (Aldon Rug Mills): What are some of the possible uses of felt and nonwoven fabrics in auto interiors?

BELANGER: I feel that there is a great future for nonwoven fabrics in auto headliners and body cloth. There is no reason why a fabric can't be made right now by a nonwoven method for auto headliners. But so far no one has developed one with the characteristics we want.

OTTO ENGELHARD (Native Laces & Textiles Inc.): Did you experiment with knitted fabrics made with stretch yarns such a Helanca, and Ban-Lon?

BELANGER: We have experimented for several years with woven fabrics made with Helanca type yarns. One of the problems we found was that we couldn't get them without excessive warp streaks.

LINDSAY V. CHASE (Interchemical Corp.): In fabrics for convertible tops is there a tendency toward print designs in the insides?

BELANGER: Not at my company. Inside colors for convertible tops are going to be plain and largely black. In fact, we have completely switched over to fabrics coated with vinyl both on the exterior and interior surfaces. The main reason for this is that we are heat-sealing all seams to eliminate thread rotting and leaks.

AATT Will Widen Activities; New Chapter formed in South

The American Association for Textile Technology is seeking to increase membership and broaden the scope of technical research in fibers, fabrics and nonwoven fields. To achieve these aims AATT's board of directors has approved a new constitution and bylaws.

The new constitution will permit organization of regional chapters, place all technical activities under the direction of a technical council, add two new types of membership to make four classes (regular, student, junior and honorary), and provide for an annual meeting each year not later than February 15. The date of the first convention has been tentatively set for early 1961. Current AATT membership is around 1,000.

A Piedmont Chapter, embracing members in North and South Carolina, has been formed within the American Association for Textile Technology. At a meeting in Charlotte, N. C. in November, the new chapter was officially launched with Ajalon A. Tillery, Deering, Milliken Co. McCormick, S. C., elected as chairman. Prof. D. S. Hamby, School of Textiles, North Carolina State College, Raleigh, was chosen vice chairman; Dr. A. Frank Tesi, Celanese Corp. of America, Charlotte, N. C., was elected secretary and Prof. E. A. McKenna, Clemson College, Clemson, S. C., was named secretary.

The post of director of memberships was given to Charles D. Coleman, J. P. Stevens & Co., Greenville, S. C., while R. J. Rice, Celanese Corp., Charlotte, was made program director. Austin Elliott, Tennessee Eastman Co., Greensboro, N. C., was chosen to serve as public relations director. Dr. Bruce Allen, Celanese Corp., Charlotte, served as chairman of the nominating committee.

At the organizing meeting, Albert E. Johnson, director of trade relations for the National Institute of Drycleaning, and a director of the national organization of AATT, outlined organizing procedure and brought to the meeting the greetings of the national AATT's officers and members. Another speaker, Dr. L. H. Hance, president of the Institute of Textile Technology, Charlottesville, Va., declared that the AATT is valuable to members because of the forum it provides for an exchange of ideas.

The Piedmont Chapter will be open to membership for qualified textile technologists and others in textiles who live in the Carolinas. Application for a charter for the new chapter will be made to the national AATT under its new constitution. Present plans of the Piedmont chapter call for four meetings each year.

AATT already has another regional group, the Appalachian Chapter, established in 1957. Arthur Cresswell, North American Rayon Corp., Elizabethton, Tenn., is chairman.

TEXTILE NEWS

World Wide

EUROPE'S TEXTILE OUTLOOK for the first half of 1960 appears bright, the Textile Committee of the Organization for European Economic Cooperation reports. After suffering in 1958 the worst year since 1952, European textile demand began looking upward last Spring. OEEC noted, however, that its broad industry forecast was mixed. It said: "The synthetic fiber industry is expected to continue its expansion, and prospects for the wool industry, in particular the worsted sector, are good. Some improvement is also expected in the cotton, manmade fiber and flax industries. On the other hand, the situation of the jute industry has given rise to pessimism."

GERMANY IS RAISING PRICES on a large volume of fabrics. Increases have been ranging in the area of 5 to 8%. They followed wage hikes of 8 to 10%, part of which was due to shortening the work week from 45 to 44 hours.

JAPANESE TO MAKE ACRYLIC fiber licensed from Farbenfabriken Bayer. The company is Teikoku Rayon. The fiber is Dralon. One-third of a ton has been daily experimental production level.

RUSSIA MAY GET BRITISH equipment for the big textile factory it is planning at Kalinin. Platt Bros. is understood to have an inside track. The firm sold $8 million of tire cord equipment to Russia last April.

SOVIETS WILL IMPORT RAYON staple fiber from Japan in exchange for raw cotton. The rayon shipments will total 6,000 tons, according to terms of an agreement made by a Russian textile mission which recently visited Osaka.

HONG KONG TEXTILE TRADE appears split over desirability of imposing voluntary quotas on exports to the United States. Henry Kearns, U. S. Assistant Secretary of Commerce, has been seeking such export controls and has talked on the spot with Hong Kong merchants.

Chu Shek-lun, president of the Chinese Manufacturers Association opposed controls, saying "we believe Mr. Kearns will not jeopardize the interest of this colony as a whole to please the few." Then the Hong Kong Garment Manufacturers Association said "voluntary and democratic limitation" on cotton garment exports was needed as were maintenance of export standards such as quality control.

SWISS DUMPING CHARGES concerning textile imports from the Far East were denied in Hong Kong trade circles. There was also an implicit warning in the Hong Kong denial. The textile sources there noted that the colony was exporting only $322,600 worth of textiles to Switzerland, as compared with similar Swiss imports of nearly $1.2 million. Thus, the Swiss might be hit harder than Hong Kong in any trade repraisal act.

GHENT TEXTILE FAIR, to be held next month in the Belgian Port city, will be twice as large as the last one held in 1958. More than 200 firms, representing most of the country's textile production, will participate. Reason for the added importance of the 1960 exhibit is Euromart which is opening a broader market for all goods produced in the 6-nation area (Germany, France, Italy, Belgium, Holland and Luxembourg).

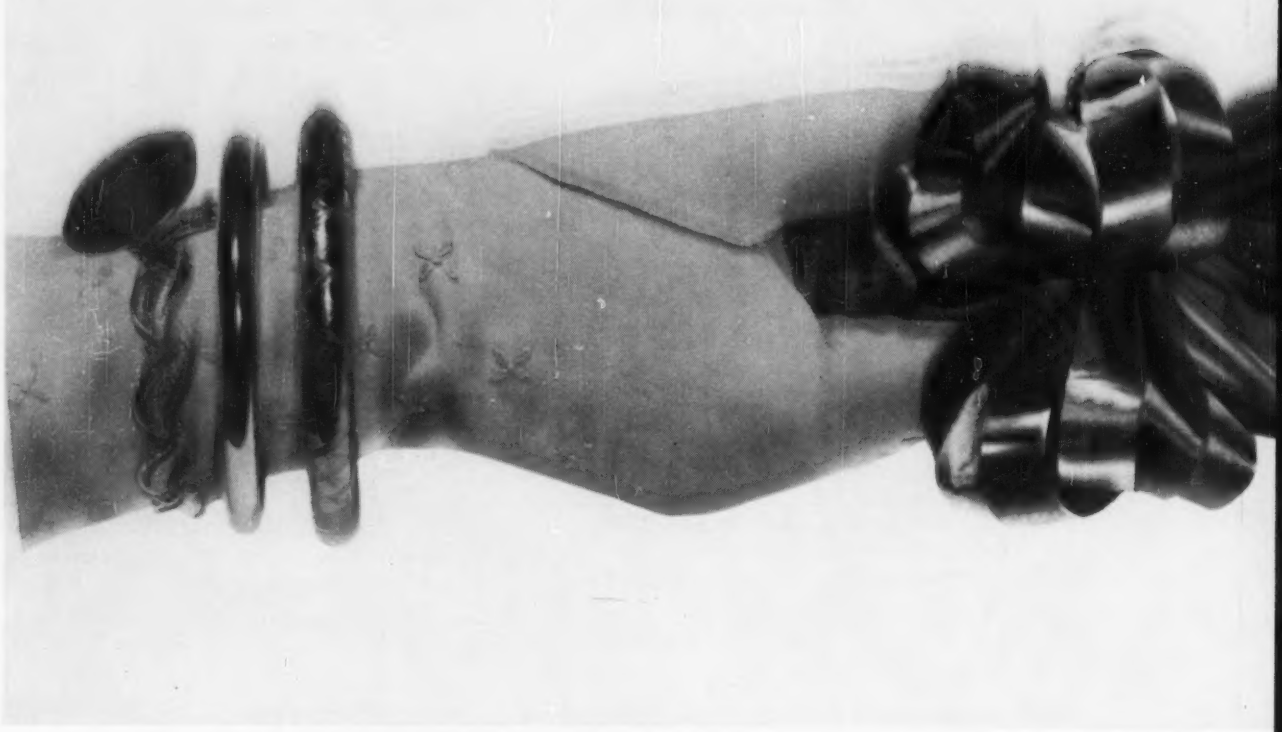
ARGENTINE NYLON 6 production has been started in 15, 40, 60, 70, 100 and 210 denier yarn, as well as stretch Nylon 6 yarn in 70 denier 12 filament, 70/20, 70/30 and 100/30. The firm is Forti Argentina S. A.

UK MAN-MADE FIBER OUTPUT is expected to have set a record high last year. Although official figures for 1959 were not yet available, Sir William Palmer, chairman of the British Man-Made Fibers Federation, said exports of filament yarn and staple fiber have been on the rise. But woven and knitted fabric exports were declining. He attributed this to the loss of Commonwealth markets which are aiming at self-sufficiency. The strong automobile market has helped domestic sales of industrial fabrics and tire cord.

BRITISH MILL MEN WARNED about low labor cost competition from the Euromart countries. R. M. Ashner, head of Werner Textile Consultants, told a Cotton Board productivity meeting that UK mills will have difficulty maintaining high output and profitable investments in the face of this competition if they do not improve their marketing organizations.

ITALIAN WOOL FIRMS set up a new trade association to coordinate seasonal styling of men's wear fabrics. The group is called GIDAM. Domestic marketing gains will be the initial goal. The group will then push on to the export field. Meetings will probably be held annually at San Remo. Some 1,000 woolen and worsted looms are involved.

I Christen thee "NYLOFT"!



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*"**NYLOFT**" is Industrial Rayon Corporation's trade mark for its new continuous filament textured nylon yarn.

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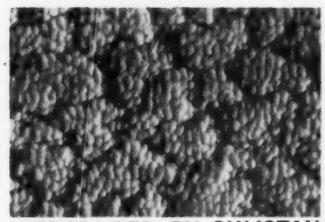

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Nylon Fiber Division, Industrial Rayon Corporation, 500 Fifth Avenue, New York 36, New York; 807 Guilford Building, Greensboro, North Carolina.

IRC makes only the yarn, not the carpet.

For the DYER and FINISHER

Everglaze Finish Data

Everglaze Marketing Division of Joseph Bancroft & Sons Co. has published a 4-page folder outlining the non-iron properties of its Everglaze and BanCare fabrics. The folder also contains information about its Everglaze chintz. *For copies write the editors.*

Interchem Polydyes

Interchemical Corp.'s Color & Chemicals Division has introduced a new series of highly dispersed dyes, Interchem Polydye Colors, for dyeing polyester fibers. A wide range of shades is provided, from pastels to full, deep colors of good fastness. Selected Polydye Colors also are suitable for dyeing certain other synthetics, such as acetate, triacetate, polyamide and acrylic fibers. *For further information write the editors.*

New Polyester Dyes

A new line of disperse dyes said to be satisfactory for application to polyester fibers has been introduced by Sandoz, Inc. Trademarked as "Foron ultra-dispersed," the line will include 13 dyes by the end of this year. Seven have already been introduced; three yellows, two oranges, a blue, and a scarlet. Four of the seven are patented colors.

Properties of these colors on polyester fibers include improved fastness to light, sublimation, wet treatments, gas fading, perspiration and crocking. Dyeing performance is said to include excellent dispersibility in water, good fiber penetration, and freedom from filtering out in package dyeing. *For further information write the editors.*

New Latex Backing

Maniflex 500 a new latex backing said to provide good dimensional stability, is now being marketed by Manufacturers Chemicals Co. The new backing is reported to reduce greatly shrinkage and stretch and prevent ravelling of knit goods due to cutting and handling. The new product cures at low temperatures; it can be applied by roller or spray, and is non-toxic and non-flammable. Maniflex 500 is said to be resistant to both laundering and drycleaning. *For further information write the editors.*

Dry-Crease Recovery

A new process to build maximum dry-crease recovery into Belfast self-ironing fabrics has been announced by Deering Milliken Research Corp. The new process is said to involve an entirely different approach to basic molecular modification of cotton fiber plus the limited use of resins. As a result Belfast fabrics are now said to be self-ironing when tumble dried as well as when line dried. *For further information write the editors.*

New Acid Dye Card

A new and comprehensive shade card of acid dyestuffs, and two basic dyes, has been prepared by General Dyestuff Co. The card contains 114 pages of illustrative dyeings and fastness tables, 29 pages of text and 14 pages of indices.

Nylon, Rayon Tire Yarn Reduced

U. S. producers of both nylon and rayon tire yarn cut prices last month. Nylon prices were reduced by Du Pont, Chemstrand and Allied Chemical. Prices of rayon high tenacity yarn, tradenamed "Tyrex" for promotional purposes, were cut by Beaunit, American Viscose and Industrial.

The nylon price cuts bring 840 denier yarn down to 97 cents from $1.06; 720 denier to $1.04 from $1.09; 1680 denier to 97 cents from $1.03. Rayon prices were reduced five cents a pound to 57 cents for 1100 denier yarn and 50 cents for 1650 denier.

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U. S. MAN-MADE FIBER PRICES

This schedule lists the prices of yarns, staple and tow as reported by the producers in December 1959. All prices are given as subject to change without notice.

CELLULOSIC YARNS

ACETATE

American Viscose Corp.

Current Prices
Effective March 13, 1959

Bright and Dull

Denier & Filaments	Cones & 4-6 Lb. Tubes	* Intermediate Twist Twister Tubes	Warps	Spinning Cones	Twist Warps
40/11	....	....	....	....	$1.04
45/11	....	....	....	....	.93
55/14	$ .99	$ .97	$1.00	....	.77
75/20	.95	.93	.96	$ .89	.90
100/28	.91	.89	.92	.85	.86
120/32	.82	.80	.83	.76	.77
150/41	.74	.73	.75	.69	.70
200/54	.70	.69	.71	.66	.67
300/80	.66	.65	.67	.62	.63

* Standard Twist 2¢ Additional.
Terms: Net 30 Days.

Celanese Corp. of America

Current Prices
Effective March 10, 1959

Bright & Dull

Denier and Filaments	Intermediate Twist 4 & 6-Lb. Cones	Beams	4-Pound Cheeses	Spinning Twist Cones	Beams	0 Twist Tubes
45/13	$1.12	$1.13	$	$	$	$ ....
75/20	.95	.96	....	.89	.90	.79
75/50	.97	.98	....	....	.92	.84
100/26-40	.91	.92	....	.85	.86	.77
120/40	.82	.83	....	.76	.77	....
150/40	.74	.75	.74	.69	.70	.66
200/52	.70	.71	....	.66	.67	....
300/80	.66	.67	....	.62	.63	.60
450/120	.66	.67	....	.62	.63	....
600/160	.65	.66	....	....	....	....
900/80-240	.63	.64	....	....	....	.61

150 Denier 12-TM Tubes ..... .73
2-Pound Cheeses ..... .01 Less Than 4-Pound Cheeses
2-BU and 4-BU Tubes ..... Same Price as 4 and 6-Lb. Cones

Terms: Net 30 days. Shipments prepaid to any destination in U.S.A.
Prices subject to change without notice.
All previous prices withdrawn.
Prices on unlisted items can be obtained upon request.
Orders are subject to conditions of sale appearing on our acknowledgements of orders.

Celaperm Filament Yarn Prices

Denier and Filaments	Intermediate Twist 4 & 6-Lb. Cones	Beams	Spinning Twist Cones	Beams
55/15	$1.37	$1.38	$1.31	$1.32
75/20	1.34	1.35	1.28	1.29
100/26	1.28	1.29	1.22	1.23
120/40	1.19	1.20	1.13	1.14
150/40	1.11	1.12	1.06	1.07
200/52	1.05	1.06	1.01	1.02
300/80	1.01	1.02	.97	.98
450/120	.99	1.00	.95	.96
600/160	.97	.98	....	....
900/80	.94	....	....	....

Celaperm Black Yarn Prices

Effective March 11, 1955

Denier and Filaments	4 & 6-Lb. Intermediate Twist Cones	Beams	Spinning Twist Cones	Beams
55/15	$1.17	$1.18	$1.11	$1.12
75/20	1.14	1.15	1.08	1.09
100/26	1.08	1.09	1.02	1.03
120/40	.99	1.00	.93	.94
150/40	.91	.92	.86	.87
200/52	.85	.86	.81	.82
300/80	.81	.82	.77	.78
450/120	.79	.80	.75	.76
600/160	.77	.78	....	....
900/80	.74	....	....	....

3 to 5 Turns on Cones or Beams — $.02 Additional

Terms: Net 30 days. Transportation prepaid or allowed to any destination in U.S.A.
Prices subject to change without notice.
All previous prices withdrawn.
Note: Prices on unlisted items can be obtained upon request.
Orders are subject to conditions of sale appearing on our Acknowledgments of Orders.

E. I. du Pont de Nemours & Co.

Textile Fibers Dept.
Current Prices

Acetate

Denier & Filament	Zero Twist Tubes	Beams	Low Twist Cones	Beams	Intermediate Twist 2 & 4 Lb. ⅝" Tbs.	4 & 6 Lb. Tw. Tbs.	Cones	Bms.
40-13	$1.06	$1.13						
45-13	.94	1.02		$1.11				
55-18	.82	.86		.91			$.99	$1.00
55-24	.82	.86		.91			.99	1.00
75-24	.79	.89		.90		$.93	.95	.96
75-50				.92		.95	.97	.98
100-32	.77	.85		.86		.89	.91	.91
120-50	.73	.76		.77		.81	.82	.83
150-40	.66	.69	$.69	.70	.74	.74	.74	.75
200-60/64	.65		.66	.67	.70	.70	.70	.71
240-80			.65				.69	
300-80	.60	.62	.62	.63	.66	.66	.66	.67
450-120	.61		.62	.63	.66	.66	.66	.67
600-160					.65		.65	.66
900-44					.63		.63	.64
900-240	.61				.63		.63	.64
1800-88					.61		.61	.62
2700-132					.61		.61	.62
3000-210					.61		.61	.62

(A) Regular Twist (2.9 and 5 T.P.I.)—add $.02 to Intermediate Twist Price.
(B) 1 lb. ⅝" Tubes—add $.02 to 2 & 4 lb. ⅝" Tube Price.

Color-Sealed

Denier & Filament	Zero Twist Tubes	Beams	Low Twist Cones	Beams	Intermediate Twist Twisted Tubes 2 Lb.	4 & 6 Lb.	Cones	Beams
55-18	$1.245	$1.315		$1.32	$1.35	$1.35	$1.37	$1.38
75-24	1.18	1.28		1.29	1.32	1.32	1.34	1.35
100-32	1.14			1.23	1.26	1.26	1.28	1.29
150-40	1.03	1.06	1.06	1.07	1.10	1.11	1.11	1.12
200-64	1.00			1.02	1.04	1.05	1.05	1.06
300-80	.95	.97		.98	1.00	1.01	1.01	1.02

(A) Regular Twist—Add $.02 to Intermediate Twist Price.

Black

Denier & Filament	Zero Twist Tubes	Beams	Low Twist Cones	Beams	Intermediate Twist 2 & 4 Lb. ⅝" Tbs.	4 & 6 Lb. Tw. Tbs.	Cones	Beams
40-13	$1.215	$1.285						
55-18	1.045	1.115		$1.12		$1.15	$1.17	$1.18
75-24	.98	1.08		1.09		1.12	1.14	1.15
100-32	.94			1.03		1.06	1.08	1.09
150-40	.83	.86	.86	.87		.91	.91	.92
200-60	.80		.81	.82		.85	.85	.86
300-80	.75	.77	.77	.78	.81	.81	.81	.82
450-120				.76	.79	.79	.79	.80
600-160				.74	.77	.77	.77	.78
900-240, 44				.74	.74	.74	.74	.75

(A) Regular Twist (2.9 and 5 T.P.I.)—add $.02 to Int. Twist Price.
(B) 1 lb. ⅝" Tubes—add $.02 to 2 & 4 lb. ⅝" Tube Price.

Specialty Yarns

Type 20 — Same Price as Regular Yarn
Type C — Same Price as Regular Yarn

Thick & Thin

Denier & Filament	Natural Cones	Beams	Black Cones	Beams	Color-Sealed Cones
200-64 Int. Twist	$1.05	$	$1.15	$	$1.35
200-64 Reg. Twist	1.08	1.09	1.17	1.21	....

Terms: Net 30 days. Subject to changes without notice.
Domestic Freight Terms are F.O.B. shipping point, freight prepaid our route within the continental limits of the United States, excluding Alaska.

Eastman Chemical Products, Inc.

Tennessee Eastman Co.
Effective March 13, 1959

"Estron"* Yarn, Bright or Dull — White

Denier & Filament	Regular Twist Cones	Beams	Intermediate Twist Cones	Beams	Low Twist Cones	Beams	Zero Twist Tubes	Tricot Beams Spun Twist	Zero Twist
55/13	$1.01	$1.02	$0.99	$1.00	$0.93	$0.94	$0.82	$0.87	$0.86
75/19	.97	.98	.95	.96	.89	.90	....	.90	....
75/49	.99	1.00	.97	.98			....	....	....
100/25	.93	.94	.91	.92	.85	.86	....	....	....
120/30	.84	.85	.82	.83	.76	.77	....	....	....
150/38	.76	.77	.74	.75	.69	.70	.66	....	....
200/50	.72	.73	.70	.71	.66	.67	....	....	....
300/75	.68	.69	.66	.67	.62	.63	.60	....	....
450/114	.68	.69	.66	.67	.62	.63	....	....	....
600/156	.67	.68	.65	.66	.62	.63	....	....	....
900/230	.65	.66	.63	.64	....	....	.61	....	....
Heavier	....	....	....	....	....	....	.56	....	....

Current Prices—December 19, 1955

"Chromspun"*—Standard Colors (Except Black)

Denier & Filament	Regular Twist Cones	Regular Twist Beams	Intermediate Twist Cones	Intermediate Twist Beams	Low Twist Cones	Low Twist Beams
55/13	$1.39	$1.40	$1.37	$1.38	$1.31	$1.32
75/19	1.36	1.37	1.34	1.35	1.28	1.29
100/25	1.30	1.31	1.28	1.29	1.22	1.23
150/38	....	....	1.11	1.12	1.06	1.07
300/75	....	....	1.01	1.02	.97	.98
450/114	....	....	.99	1.00	.95	.96
900/230	....	....	.94	.95	....	....

Current Prices

"Chromspun"*—Black

Denier & Filament	Regular Twist Cones	Intermediate Twist Cones	Intermediate Twist Beams	Low Twist Beams
55/13	$1.19	$1.17	$1.18	$1.12
75/19	1.16	1.14	1.15	1.09
100/25	1.10	1.08	1.09	1.03
150/38	.93	.91	.92	.87
200/50	.87	.85	.86	.82
300/75	.83	.81	.82	.78
450/114	.81	.79	.80	.76
900/230	.76	.74	.75	....

Prices are subject to change without notice.
Prices on special items quoted on request.
Terms: Net 30 days. Payment—U. S. A. dollars.
Transportation charges prepaid or allowed to destination in continental United States except Alaska. Seller reserves right to select route and method of shipment. If Buyer requests and Seller agrees to a route or method involving higher than lowest rate Buyer shall pay the excess of transportation cost and tax.
* "Estron" is a trade-mark of the Eastman Kodak Company.
* Chromspun is a trade-mark of the Eastman Kodak Company.

RAYON

American Bemberg

Current Prices

Regular Production Reel Spun Yarn

Den/Fil	No Turn Skeins	Turned* Skeins & Cones	8½ Turns	High Turn Skeins & Cones 12 Turns	15 Turns	18 Turns
40/30	$1.49	$1.95	....	....	....	$2.08
50/36	1.29	1.55	....	....	....	1.85
65/45	1.22	1.38	....	$1.61	....	1.66
76/60**	1.11	1.25	....	1.48	$1.53	1.56
100/74**	1.02	1.15	....	1.40	1.45	1.51
125/60	1.01	1.12	$1.16	1.37	....	....
150/120	.99	1.08	1.18	1.33	....	....
300/225	....	1.01	....	....	1.14	....
900/744	....	.91	....	....	....	....
1800/744	....	.91	....	....	....	....

* Turn includes twists up to 6 turns on 40 and 50 denier, and up to 5 turns on heavier deniers.
** Spun Dyed Cupracolor Black 15¢ per lb. extra.

"44" HH Spool Spun Yarn

Den/Fil	No Turn Tubes	No Turn Beams	5 Turn Beams	5 Turn Cones	12 Turn Beams	12 Turn Cones	15 Turn Cones
40/30	$1.35	$1.35	....	....	....	....	....
50/36	1.05	1.05	....	....	....	....	....
65/45	1.13	....	....	....	....	$1.50	....
75/45*	1.04	....	$1.15	$1.15	$1.38	1.38	$1.46
100/60*	.96	....	1.10	1.10	1.30	1.30	1.38
125/60	.91	....	1.06	1.06	....	....	....
150/90*	.83	....	.87	.87	1.21	1.21	1.30
150/120	.87	....	....	.99	....	....	....

* Available also in Spun Dyed Cupracolor Black at 15¢ per lb. extra.

"44" HH "Parfe" Spool Spun Yarn

Den/Fil	No Turn Cones	5 Turn Cones	5 Turn Beams	12 Turn Cones	15 Turn Cones
50/36	$1.60	$1.85	$1.85	....	....
75/45	1.48	1.58	1.58	1.78	1.88
100/60	1.38	1.48	1.48	1.68	1.78
150/90	1.21	1.28	1.28	1.63	1.73
300/120	1.21	1.28	....	....	....

Nub-Lite (Short Nubbi)

Code	Den/Fil	2½ Turn Natural Cones	2½ Turn Cones*	5 Turn Natural Cones	5 Turn Cones*
1515	160/90	....	....	$1.50	$1.40
1519**	155/90	....	....	1.50	1.40
2008	200/120	....	....	1.11	1.01
3002	315/180	$1.15	$1.05	....	....
4011	410/224	1.15	1.05	....	....
6001	600/360	1.13	1.03	....	....
8001	860/450	1.13	1.03	....	....

* Basic price for cones when dyed. Dyed Colors 30 and 35 cents above basic price. Prices based on 200 lb. dyed lots only. Prices for natural yarn skeins same as natural cone prices.
** Code 1519 can be run in warp or filling.

CUPIONI Type B

Code	Den/Fil	2½ Turn Cones
9650	70/45	$1.69
9660	100/60	1.53
1545	150/90	1.30
9730	285/135	1.15
9792	450/225	1.15
9814	600/372	1.12
9837	940/372	1.02

"Spun Dyed Cupracolor is spun 150, 285, and 940 deniers at 35¢ per pound extra. Cupracolor Black Comes in all deniers."

STRATA SLUB

Code	Den/Fil	Turned Cones	Price
9747	275/225	3½	$1.25
9798	450/372	2½	1.15
9823	600/372	2½	1.10
9847	960/372	2½	1.02
9685	1290/372	1½	1.00
9934	2680/744	1½	1.00

"Spun Dyed Cupracolor is spun in 600 and 960 deniers at 35¢ per pound extra."

FLAIKONA

Code	Den/Fil	Turned Cones	Price
9699	150/148	2½	$1.35
9769	300/224	2½	1.25
9782	450/270	2½	1.05
9809	600/360	2½	1.05
9840	900/450	2½	1.00
9924	2000/744	2½	.95

"Spun Dyed Cupracolor Black 35¢ per pound extra."
Terms: Net 30 days, F. O. B. shipping point. Minimum freight allowed to consignee's nearest freight station east of the Mississippi River. To points west of the Mississippi River minimum freight allowed to Memphis, Tennessee. Goods after shipment shall be at buyer's risk. Merchandise transported in seller's own trucks or those of its affiliates is sold F. O. B. delivery point.

American Enka Corp.

Current Prices
Effective June 29, 1959
Standard Quality Yarns

Standard Quality Rayon Yarns

NATURAL

Den./Fil.	Luster	Turns	Weaving Cones	Weaving Beams	Skeins Long	Skeins Short	Cakes	Knitting Cones
50/18	E	5 S	....	....	....	....	....	1.63
50/20	B	4 S&Z	....	....	....	....	1.52	1.64
75/10	B	3 S&Z	....	....	....	....	1.02	....
75/18	E	4 S	....	....	....	....	....	1.14
75/30	B	4 S&Z	....	....	1.32	1.41	1.02	1.14
75/30	B	8 S	1.24	—	1.49	1.59	1.12	1.24
75/45	P,E	4,5 S&Z	....	....	1.32	1.41	1.02	1.14
75/60	B,P	3,4 Z	1.16	....	....	....	1.04	....
100/14	B	3 S&Z	....	....	....	1.15	.90	....
100/40	B,E	12 S&Z	....	....	....	....	....	1.29
100/40	B,P,E	4,5 S&Z	....	.98	....	....	.90	.98
100/40	B	6 S	1.17	....	1.34	1.44	1.09	....
100/40	B,P	2.5,4S&Z	.98	.98	1.15	1.23	.90	....
100/60	B	4 S&Z	....	....	....	....	.90	....
100/60	E	2.5 S	1.00	1.00	....	....	.92	....
125/40	E	3 Z	....	....	....	....	.87	.90
125/50	B,P	3 S	.96	.96	....	....	....	....
150/40	B,E	0	.745	....	....	....	....	....
150/40	B,P,E	2.1,3S&Z	.82	.82	.96	1.03	.78	.82
150/40	B,E	5 S&Z	.90	.90	1.15	1.25	.86	....
150/40	B,E	8 S&Z	.95	.95	1.20	1.30	.91	....
150/90	E	2.1 S&Z	.83	.83	....	....	.79	....
200/40	P	3 Z	....	....	.94	1.01	.77	.81
200/40	B	2.1 S	.81	.81	.94	1.01	.77	....
250/60	P,E	2.4 Z	....	....	.93	1.00	.77	.80
300/30	E	3 S	.81	.85	....	....	....	....
300/50	B,E	3 S	.73	.76	....	....	....	....
300/60,120	B,P,E	2.1 S&Z	.73	.73	.82	.89	.71	.73
300/60	B	3.5 S	.73	.73	.82	.89	.71	....
300/60	B	6 S	.86	.86	....	1.00	.84	....
300/60	B	8 S	.88	.88	....	....	.86	....
300/120H.T.	B	2.5 S	.75	.75	....	....	.73	....
300/40H.T.	B	3 Z	.85	....	....	....	.83	....
450/60	B	3 S	.69	.71	....	....	.67	....
450/80	B,E	3 S	.69	.71	.78	.85	.67	....
600/80	B,E	3 S	.73	.75	....	....	....	....
600/120	B	3 S	.69	.71	.78	.85	.67	....
900/120	B	3.4 S	.69	.71	.78	.85	.67	....
900/120H.T.	B	3.6 S	.71	.71	....	....	.69	....

B = Briglo
P = Perlglo (Semi-Dull)
E = Englo (Dull)
H.T. = High Tenacity

Jetspun® (Colored Yarns)

Den./Fil.	Tenacity	Turns	Weaving Cones	Weaving Beams	Colors
100/40	Regular	2.5S	$1.35	$1.35	All
150/40	Regular	2.1S	1.17	1.17	All
200/40	Regular	8.3S	1.28	1.28	All
300/40	Regular	3.4S	1.09	1.09	All
300/120	Regular	2.1S	1.09	1.09	All
450/80	Regular	3.0S	1.05	1.05	All
600/80	Regular	3.4S	1.04	1.04	All
300/40	High	3.4S	1.11	1.11	All
600/80	High	3.4S	1.07	1.07	All
900/120	High	3.4S	1.06	1.06	All

® Registered Trade Mark for American Enka Solution-dyed Rayon Yarn.

Skyloft (Lofted Rayon Filament Yarns) Natural and Jetspun®

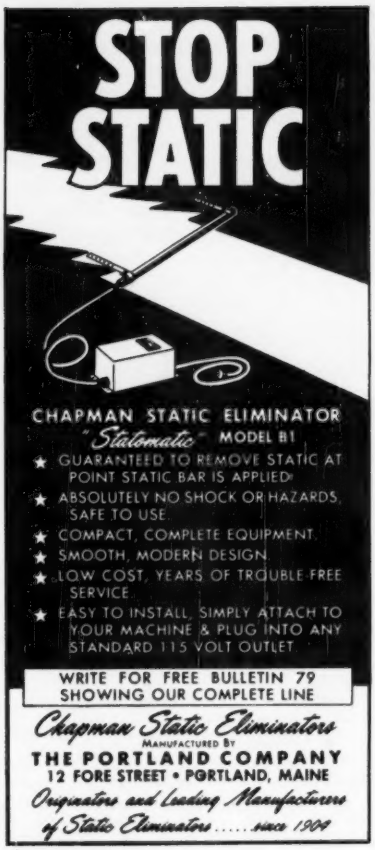
Denier	Denier per Filament	Twist	Cones or Tubes Natural	Cones or Tubes Black	Other Colors
1000	7.5	3.5S	$.92	$1.17	$1.17
2200	15	3.5S&Z	.67	.77	.84
2700	15	3.5S&Z	.67	.77	.84
4300	15	3.0S&Z	.66	.76	.83
5300	15	3.0S&Z	.65	.75	.82

American Viscose Corp.

Effective October 13, 1959

Graded Yarns

Denier	Filament	Type	Short Skeins	Long Skeins	Cones Tubes	Beams Spools	Cakes
		Regular Turns					
75	10-30	Bright	$1.41	$1.32	$1.14	$1.14	$1.02
75	30	Dull	....	....	1.14	1.14	1.02
100	14-40	Bright	1.23	1.15	.98	.98	.90
100	60	Dull	....	....	1.00	1.00	.92
150	24-40	Bright	1.03	.96	.82	.82	.78
150	40	Semi-Dull	1.03	.96	.82	.82	.78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CHAPMAN STATIC ELIMINATOR
"Statomatic" MODEL B1
★ GUARANTEED TO REMOVE STATIC AT POINT STATIC BAR IS APPLIED
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★ SMOOTH, MODERN DESIGN.
★ LOW COST, YEARS OF TROUBLE-FREE SERVICE.
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William R. Landa, George E. Norman, Jr., and **C. L. Stafford, Jr.** have been elected vice presidents of Burlington Industries, Inc.

W. R. Landa G. E. Norman, Jr. C. L. Stafford, Jr.

TEXTILE NEWS BRIEFS

Chromspun Color Display

Eastman Chemical Products, for the first time in its furnishings promotion program has developed an exhibit around the Chromspun House of Color theme that will become a permanent display in a department store, Stern's, New York. A round-up of coordinated home fashions in Chromspun acetate will be featured in the display. Purpose of the undertaking is to associate more closely in the public's mind the merits of Eastman fiber in homefurnishings end uses, with the actual products in the store.

New Textile Dictionary

Fairchild's Dictionary of Textiles, an up-to-date reference book of 12,000 definitions, has been published by Fairchild Publications, Inc. The new book, edited by Stephen S. Marks, editor of the "Daily News Record," contains specific definitions covering all fibers, fabrics and finishes, as well as all uses of fabrics—clothing and accessories, decorative materials, linens and domestics, rugs and blankets. The dictionary, cloth bound, measures 6¼ by 9¼-inches, contains 627 pages and is priced at $25 per copy.

Trademarks and Label Law

Du Pont's Product Information Service has published a 16-page, illustrated booklet on how to use Du Pont trademarks properly in compliance with the Textile Fibers Products Identification Act. The new law generally requires that all consumer textile articles be identified as to fiber content after March 3, 1960. *For free copies of the booklet write the editors.*

New Atlanta Office

Proctor & Schwartz, Inc., has opened a new regional sales office at 3272 Peachtree Road, N. E., Atlanta, Ga. The office is under the direction of Denver D. Cunningham.

Linen Demand Improving

William V. M. Fawcett, President of Frederick J. Fawcett, Inc., of Boston, Mass., reports an increased interest in imported linen yarns both in the knitting and weaving fields. Frederick J. Fawcett, Inc., is represented in the southern states by Paul Mauney & Company of King's Mountain, N. C.

Personnel Notes

Norman F. Garrett has been elected a vice president of Whitin Machine Works.

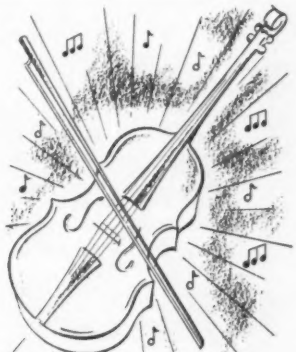
Dr. Harley Y. Jennings has joined the Textile Research Center of the School of Textiles, North Carolina State College as visiting research professor of textile chemistry.

(Continued on Page 63)

Why Fuss, Fret or Fiddle Around . . .

when you can use

MECHO AIR GUIDERS



You can't chalk up production or show a profit for time spent fussing with fabric guiders that need constant checking, adjusting or repairs.

Mecho Air Guiders speed up fabric processing and pay their own way in a hurry! There are no production time losses with Mecho. You can adjust it while in operation. Handles lightest fabrics or heavy duck. There's no spoilage . . . Mecho can't spatter and the ingenious selvage finger can't turn a double edge. There are no weights or linkages . . . Mecho's simple design is trouble-free.

What's more, you can depend on Mecho to guide within ⅛ of an inch of the mark, and maintain constant alignment, from 1 to 400 ypm.

Send today for FREE Catalog and details about our complete Guiding Service

THE Guider Specialty Company

423 W. Rock Ave: — New Haven 15, Conn.

Southern Representatives: McSpadden & Scantland, P. O. Box 3635, Charlotte 3, N. C.

150	40	Dull	....	....	.82	.82	.78
150	90	Dull	....	....	.83	....	.79
200	10-44	Bright	1.01	.94	.81	.81	.77
250	60	Semi-Dull & Dull	1.00	.93	.80	.80	.77
300	15	Bright	....	.85	.78	.78	....
300	30	Dull Flat Filament	....	....	....	.85	....
300	44	Bright & Dull	.89	.82	.73	.73	.71
300	234	Dull	....	....	.83	....	.81
450	60-100	Bright	....	.78	.69	.71	.67
600	100	Bright & Dull	....	.78	.69	.71	.67
900	50-100-150	Bright	....	.78	.69	.71	.67
1200	75	Bright	....	.78	.69	.71	....
2700	150	Bright	....	.78	.69	.71	....

Extra Turns Per Inch

150	40	Bright	6-Turns	$1.25	$1.15	$ .90	$ .90	$ .88
200	44	Bright	6-Turns	....	1.05	.96	.96	....
300	15	Bright	5-Turns	....	....	.86	.86	....
300	44	Bright	4.3-Turns	....	....	.81	....	.79
300	44	Bright	6-Turns	.97	.90	.86	.86	.84
300	120	Rayflex	6-Turns	....	....	.93	.93	....
600	30	Bright	5-Turns	....	.86	.82	.82	.80

Rayflex Yarns

150	40-60	Rayflex	$	$	$ .85	$ .85	$ .81
200	75	Rayflex	....	....	.84	.84	.80
300	60-120	Rayflex	....	....	.75	.75	.73
450	120	Rayflex	....	....	.71	.71	.69
600	234	Rayflex	....	....	.71	.71	.69
900	350	Rayflex	....	.80	.71	.71	.69

Thick & Thin Yarns

150	40-90	Bright & Dull	$	$	$1.18	$	$ ....
200	75	Bright & Dull	....	....	1.08	....	....
300	120	Bright & Dull	....	....	.98	....	....
450	100	Bright & Dull	....	....	.92	....	....
490	120	Bright & Dull	....	....	.98	....	....
900	350	Dull	....	....	1.03	....	....
920	120	Bright & Dull	....	....	1.03	....	....

Colorspun Yarns

Denier	Type	Cones/Tubes Beams/Spools
75	Regular Strength	$1.71
100	Regular Strength	1.35
150	Regular Strength	1.17
200	Regular Strength	1.14
300	Regular Strength	1.09
450	Regular Strength	1.05
600	Regular Strength	1.05
900	Regular Strength	1.05
300	High Strength	1.11
450	High Strength	1.06
900	High Strength	1.06
300	Regular Strength 5-Turns	1.19

Avicron Yarns

Avicron Yarns

Denier	Filament		Cones/Tubes Beams/Spools
1800	100-200	Singles & 2 Ply	$.68
2700	150-300-980	Singles & 2 Ply	.65

Viscose Filament Yarns

The following material deposit charges are required:

Metal Section Beams	$170.00 each
Metal Section Beam Racks	75.00 each
Metal Tricot Spools—14" flange	30.00 each
21" flange	60.00 each
32" flange	150.00 each
Metal Tricot Spool Racks—14" flange	135.00 each
21" flange	100.00 each
32" flange	75.00 each
Wooden Tricot Spool Crates	20.00 each
Cloth Cake Covers	.05 each

Same to be credited upon return in good condition—freight collect.

Celanese Corp. of America

Current Prices

Effective June 24

Viscose Rayon Filament Yarn Prices—Bright and Dull

Denier/Fil/Twist		Beams	Cones	Cakes
75/30/3			1.10	.98
100/40/2Z		.97		
100/40/3			.96	.88
100/40/5			1.02	
100/60/2Z	NS		.96	
100/60/3			.98	.90
125/40/2Z		.93		
125/40/3			.94	.85
150/40/0	NS		.74½	
150/40/2Z		.81		
150/40/3			.79½	.76
150/40/5			.90	.86
150/40/8			.95	.91
150/90/0	NS		.77½	
250/60/0	NS		.74	
250/60/3			.80	.77
300/50/0	NS		.70	
300/50/2Z		.72		
300/50/3			.70½	.69
450/120/0	NS		.67	

Terms: Net 30 days. Transportation prepaid or allowed to any destination in U. S. A.

Prices subject to change without notice.

All previous prices withdrawn.

Prices on unlisted items can be obtained upon request.

Orders are subject to conditions of sale appearing on our acknowledgments of orders.

E. I. du Pont de Nemours & Co.

Textile Fibers Dept. Current Prices

Effective with orders June 24, 1959

Bright and Dull

Den.	Fil.	Turns/ Inch Up to		Beams	Cones (A) Tubes	Cakes
40	20	3	Textile "Cordura"*		$1.97	$1.92
50	20	3			1.70	
50	20	3	Textile "Cordura"		1.72	1.67
50	35	3	Textile "Cordura"		1.77	
75	10	3	Bright			1.02
75	30	3		$1.14	1.14	1.02
100	15	3	Bright			.90
100	40	3	Bright	.98	.98	.90
100	60	3	Dull		1.00	.92
125	50	3		.96	.96	.87
150	40	3		.82	.82	.78
150	60	3	Bright	.82	.82	.78
150	60	3	Textile "Cordura"		.875	.845
150	90	3	Dull		.83	
150	100	3	Dull		.83	
300	50	2.5		.73	.73	.71
300	120	3	Textile "Cordura"	.74	.74	.72
450	72	3		.71	.69	.67
600	96	3	Bright	.71	.69	.67
600	240	3	Textile "Cordura"	.72	.70	
900	50	3	Bright	.71	.69	.67
900	144	3	Bright	.71	.69	.67
1165	480	3	Textile "Cordura"	.72	.70	.68
1800	100	3	Bright		.69	
2700	150	3	Bright	.71	.69	

Thick and Thin

100	40	3	#7 Bright		1.42	
150	90	3	#7 Bright		1.08	
200	80	3	#7 Bright		1.08	
450	100	3	#7 Bright		.92	
1100	240	3	#60 Bright		1.03	
2200	480	3	#60 Bright		.98	

Monofils

150	1	3	Bright	1.35	1.35	
300	1	3	Bright	1.15	1.10	
600	1	3	Bright		1.00	

Plush

300	30	3	Dull	.85	.81	

(A) 2¢/lb. additional for cones less than 3#.

Terms: Net 30 days.

Domestic Freight Terms are F.O.B. shipping point, freight prepaid our route within the continental limits of the United States, excluding Alaska.

* "CORDURA" and "SUPER CORDURA" are Du Pont's registered trade-marks for its high tenacity rayon yarn.

Industrial Rayon Corp.

Effective June 29, 1959

Continuous Process Textile Yarns

Denier	Filament	Turns per In.	Type	Beams	2.8# Cones	4.4# Cones and Tubes
150	40	2.5"S"	Bright	.82	.32	
200	20	2.5"S"	Bright	.81	.81	
300	44	2.5"S"	Bright	.73	.73	
450	60	2.0"S"	Bright	.69		.69
600	90	1.5"S"	Bright	.69		.69
900	50	2.0"S"	Bright	.69		.69
900	150	2.0"S"	Bright	.69		.69
1100	480	2.0"Z"	Bright extra strong	.66		.66

Lustre #4 is semi-dull.

Prices are subject to change without notice.

Strawn Monofilament

Denier	Filament	Turns per In.	Type	4.4# Cones	Spools and Tubes
450	1	0	Bright and Dull	1.00	1.05
450	1	2	Bright and Dull	1.00	1.05
1250	1	0	Bright and Dull	1.00	1.05
1250	1	2	Bright and Dull	1.00	1.05

Terms: Net 30 days f.o.b. point of shipment; title to pass to buyer on delivery of goods to carrier. Domestic transportation charges prepaid with transportation allowed at lowest published rate to all points in continental United States except Alaska.

Prices are subject to change without notice.

North American Rayon Corp.

Current Prices

Prices Effective July 3, 1959

Denier/Filament	Twist	Knitting* Cones	No Twist Knitting Cones	Weaving Cones, Velvet Cones, Beams, Tubes**	Untreated Cakes
Normal Strength Yarns — NARCO					
75/30	3.5			1.14	1.02
75/30	7			1.27	
75/30	12			1.35	
75/30	15			1.37	
75/30	20			1.40	

Study Imports of Cottons

President Eisenhower has directed the U. S. Tariff Commission to make a Section 22 investigation to determine if a special import fee is needed on cotton textile and apparel imports to offset the export subsidy of 8 cents a pound on raw cotton and cotton products. A White House source indicated that President's action, made known in a letter to the commission on November 10, definitely rules out the possibility of import quotas.

A petition for increased restrictions on imports of cotton textiles and apparel was filed by the National Cotton Council with the U. S. Department of Agriculture at the end of last June. James A Chapman, president of the American Cotton Manufacturers Institute, said an inquiry by the commission will reveal that the trend of cotton cloth and garment imports is threatening not only the Government's cotton program but also the stability of the entire cotton industry. Many members of the textile industry, however, made it clear they would rather have import quotas than an "equalization fee."

The Tariff Commission will hold hearings and make its recommendations to the President; he, however, is not necessarily bound by the commission's recommendations.

Velcro-Fastened Diapers

Diapers manufactured by Riegel Textile Corp. are among the latest items to use Velcro fasteners. Velcro is the "touch-and-close" fastener made of two strips of Du Pont nylon, one strip faced with thousands of minute hooks, the other with tiny loops. When the strips are pressed together the hooks mesh with the loops and they stick together until peeled apart. Since Velcro is also a size adjustor, the new "Presto Chango" diapers fit any baby from new born to toddler. *For further information write the editors.*

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Allied Chemical

let's talk about...

LAUREL FULLING ASSISTANTS

This month we'd like to tell you about our new Laurel synthetic compounds prepared particularly for fulling woolen fabrics and wool-synthetic blends. These Laurel Fulling Assistants provide results over a wide range of fabrics used for men's and women's wear. They assure good cover and an excellent hand.

Results obtained on goods of a broad range of weights and constructions, are equivalent to those obtained with low titre soap, and desired shrinkage in both head and width is obtained well within normal fulling time.

Laurel Fulling Assistants are clear, amber colored liquids which dissolve readily in water. They are free rinsing. Solutions prepared with Laurel Fulling Assistants and soda ash or other alkalies are stable, do not separate, and require no cooking. These properties can effect savings for you in handling and in steam. And, further savings can be effected since Laurel Fulling Assistants are stable in the presence of high soda ash and alkalai concentrations. This will enable the preparation of strongly alkaline fulling solutions which will permit the fulling cloth carbonized in the grease without first neutralizing the goods in a soda bath. Thus, an entire processing step can be eliminated.

We would like to tell you more about these Laurel *quality* products. Won't you let us hear from you, *today*?

Laurel Brand — OVER 50 YEARS OF SERVICE TO INDUSTRY

Laurel

SOAP MANUFACTURING CO., INC.

TIOGA, THOMPSON & ALMOND STS. • PHILA. 34, PA.

Warehouses: Paterson, N.J. Chattanooga, Tenn. Charlotte, N.C. Greenville, S. C.

100/40/60	3.5			.98	.90
100/40	12			1.22	
125/25/60	3			.96	.87
150/42	0		.74½		
150/42/60	3	.80½		.82	.78
300/75	0		.71		
300/75	3	.73		.73	.71
900/46	2.5	.69		.69	
1800/92	2.5	.69		.69	

* Oiled Cones $.01 per pound extra for Graded Yarns only.
** 1 lb. Tubes $.02 per pound extra for Graded Yarns only.

Terms: Net 30 days, F.O.B. shipping point, minimum freight allowed to consignee's nearest freight station east of the Mississippi River. To points west of the Mississippi River minimum freight to Memphis, Tennessee allowed. Goods after shipment shall be at buyer's risk. Merchandise transported in seller's own trucks or those of its affiliates is sold F.O.B. delivery point

Prices subject to change without notice.

TRIACETATE

Celanese Corp. of America

Current Prices

Arnel Yarn Prices
Bright & Dull

Effective August 19, 1958

Denier and Filaments	Cones	Beams	Thick and Thin Cones
55/WKZ/15	$	$1.16	$ ....
55/2Z/15	1.32	1.33	....
75/WKZ/20		1.16	....
75/2Z/20	1.21	1.22	....
100/2Z/26	1.14	1.15	....
150/2Z/40	.95	.96	....
200/2Z/40	....	....	....
200/2Z/52	.92	.93	1.25
300/2Z/80	.87	.88	1.23
450/2Z/120	.86	.87	....
600/2Z/160	.85	.86	1.21

3 to 5 Turns on Cones or Beams—$.02 Additional
Premium for Black Arnel—$.25 Per Pound
Premium for Navy Arnel—$.37 Per Pound

Terms: Net 30 days. Transportation prepaid or allowed to any destination in U.S.A.

Prices subject to change without notice.

All previous prices withdrawn.

Note: Prices on unlisted items can be obtained upon request.

Orders are subject to conditions of sale appearing on our Acknowledgments of Orders.

CELLULOSIC HIGH TENACITY YARN and FABRIC

American Enka Corp.

Effective December 19, 1958

Tempra (High Tenacity)

Denier	Elongation	Beams & Cones
1100/480	Low	.60
1230/480	High	.60
1650/720	Low	.53
1820/720	High	.53
2200/960	High & Low	.52

Enka II

*1100/720	Low	.62
*1650/1100	Low	.55
2200/1440	Low & High	.54

Terms: Net 30 days, f.o.b. Enka, North Carolina, or Lowland, Tennessee; minimum freight allowed to first destination east of the Mississippi River.

* Tyrex certified viscose yarn.

American Viscose Corp.

Effective September 21, 1959

Tyrex*
Tyrex* Certified Viscose Tire Yarn

Denier	Filament	Twist	Beams	Cones
1100	980	0	.62	.62
1100	980	Z	.62	....
1650	980	0	.55	.55
1650	980	Z	.55	....

Tire Fabric Made with Tyrex* Certified Viscose Tire Yarn and Cord

Denier	Filament	Carcass	Top Ply	Breaker
1100	980/2	.74	.74	.74
		Factor Open-525	300-490	115-275
1650	980/2	.64	.65	.675

Factor determined by dividing total ends by picks.

* Tyrex is a collective trade-mark of Tyrex Inc. for Viscose Tire Yarn and Cord.

Rayon Tire Yarn
Yarn

Denier	Filament	Twist	High Strength	Tire Yarn	Super "Rayflex" 110-210-310	Super "Rayflex" 120-220-320
1100	490	Z	....	.60	....	....
1100	980	0-Z	....	....	....	.62
1150	490	Z	.60	....	....	....
1230	490	Z	.60	....	....	....
1650	980	Z	.53	.53	.54	.55
1650	980	0	....	.53	....	.55
1650	1500	Z	....	....	....	.55
1650	1500	0	....	....	....	.55
1875	980	Z	.53	....	.54	.55
2200	980	0	....	.52	....	.54
3300	1960	0	....	....	....	.54

High Strength available on cones — tubes — beams.

Tire Yarn and Super "Rayflex"

0 twist — Available on cones, beams or 10# tubes.

Z twist — Available on beams.

Sewing Thread

1100/980 Super "Rayflex"	0-Z	Cones	.63
1500/980 Super "Rayflex"	0-Z	Cones	.59
1780/980 Super "Rayflex"	0-Z	Cones	.58

Also available in colors at .07 premium.

All yarns sold "Not Guaranteed for Dyeing".

Rayon Tire Fabric

1100	980	Super-120-220-320	.74	.74	.74
			Factor* Open-525	300-490	115-275
1650	980	Super-110-210-310	.63	.64	.665
1650	1500	Super-120-220-320	.64	.65	.675

* Factor determined by dividing total ends by picks.

Cord on cones in regular Tire Yarn twists same as fabric prices.

Other twist combinations — prices quoted on request.

When supplied, yarns and cords in special packages take premiums indicated.

10.5 oz. Wardwell tubes	.09
1.5 lb. Regular Braider tubes	.05
3.5 lb. Tubes	.035
Adhesive Dipped yarn	.05

The following deposit charges are made on invoices.

Beams	$55.00 each
Crates (Metal)	75.00 each
Fabric Shell Rolls	3.50 each

Same to be credited upon return in good condition — freight collect.

Rayon Tire Yarn and Fabric

Terms: Net 30 days. Seller to select and to pay transportation charges of common and contract carrier except when shipment moves West of Mississippi River in which event the actual cost of transportation to the Mississippi River crossing based on the lowest published freight rate, shall be allowed. Title to pass when merchandise is delivered to consignee. Transportation allowance based on lowest published volume rate shall be granted if merchandise is transported from shipping point in vehicle owned or leased and operated by buyer and title to pass when merchandise is delivered to same.

Prices subject to change without notice.

Celanese Corporation of America

Effective December 27, 1955

Fortisan Yarn Prices

Denier	Packages	Natural	Black
30/2.5/40	2 lb. Cones	$3.00 lb.	$3.35 lb.
60/2.5/80	4 " "	2.40 "	2.75 "
90/2.5/120	4 " "	2.25 "	2.60 "
120/2.5/160	4 " "	2.05 "	2.40 "
150/2.5/180	4 " "	1.95 "	2.30 "
270/2.5/360	4 " "	1.85 "	2.20 "
300/2.5/360	4 " "	1.85 "	2.20 "
60/2.5/80 Olive Green—Spun Dyed—OG106		4 lb. Cones	3.50 lb.

Terms: Net 30 days. Shipments prepaid to any destination in U.S.A.

Prices subject to change without notice.

All previous prices withdrawn.

Prices on unlisted items can be obtained upon request.

Orders are subject to conditions of sale appearing on our acknowledgments of orders.

Fortisan-36 Rayon Yarn
Bright

Denier and Filament	Twist	4# cones	8# cones	Tubes	Beams
270/280	0.8Z	$2.30			
300/280	0.8Z	$2.05			
300/280	3Z	$2.20			
400/400	0.8Z	$1.75			$1.70
400/400	0			$1.75	
800/800	0.8Z	$1.25	$1.25		$1.20
800/800	3Z	$1.40			
800/800	0			$1.25	
1600/1600	0.8Z	$1.15	$1.15		$1.10
1600/1600	2½Z	$1.30			
1600/1600	0			$1.15	

Terms: Net 30 days. Shipments prepaid to any destination in U.S.A.

Prices subject to change without notice.

All previous prices withdrawn.

Prices on unlisted items can be obtained upon request.

Orders are subject to conditions of sale appearing on our acknowledgments of orders.

E. I. du Pont de Nemours & Co.

Textile Fibers Dept. Current Prices

Effective September 21, 1959

"Super Cordura"*

Den Fil	Turns/In	All Packages
1100-720	2	$.62
1200-720	2	.62
1530-960	2	.59
1600-960	2	.55
1650-1100	2	.55
1800-1100	2	.55
2200-1440	2	.54
2400-1440	2	.54

Terms: Net 30 Days.

Domestic Freight Terms are F.O.B. shipping point, freight prepaid our route within the continental limits of the United States, excluding Alaska.

* "CORDURA" and "SUPER CORDURA" are DuPont's registered trade-marks for its high tenacity rayon yarn.

Industrial Rayon Corporation

Effective September 21, 1959

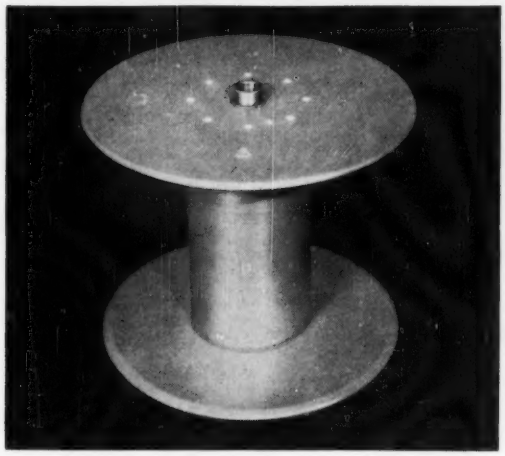
Unbleached Bright High Tenacity Yarns

Single End Beams and Cones—Type 100

Denier	Filament	Turns per Inch	Beams	Cones
1100	480	2.0 "Z"	.60	.60
1150	480	2.0 "Z"	.60	.60
1650	720	2.0 "Z"	.53	.53
1725	720	2.0 "Z"	.53	.53
2200	1000	2.0 "Z"	.52	.52
3300	1440	2.0 "Z"	.52	.52
4400	2000	2.0 "Z"	.52	.52

Type 400 prices are 4¢ more.

NO YARN TRAPPING WITH
BRAZED ALUMINUM TWO POUND TAKE-UP BOBBIN



New aluminum take-up bobbin with barrel and heads brazed together into a single unit prevents yarn trapping. Exceptional strength at price no higher than ordinary bobbins.

Write us today for full details.

BW MACK ALLENTOWN BOBBIN WORKS, INC.
ALLENTOWN PENNSYLVANIA

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REALLY PERFORM
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"Anti-Wedge"*
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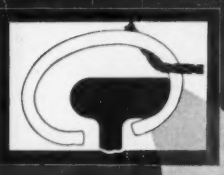

Much larger bearing area with controlled micro-inch super finish

Fast break-in

Top-speed smoothness

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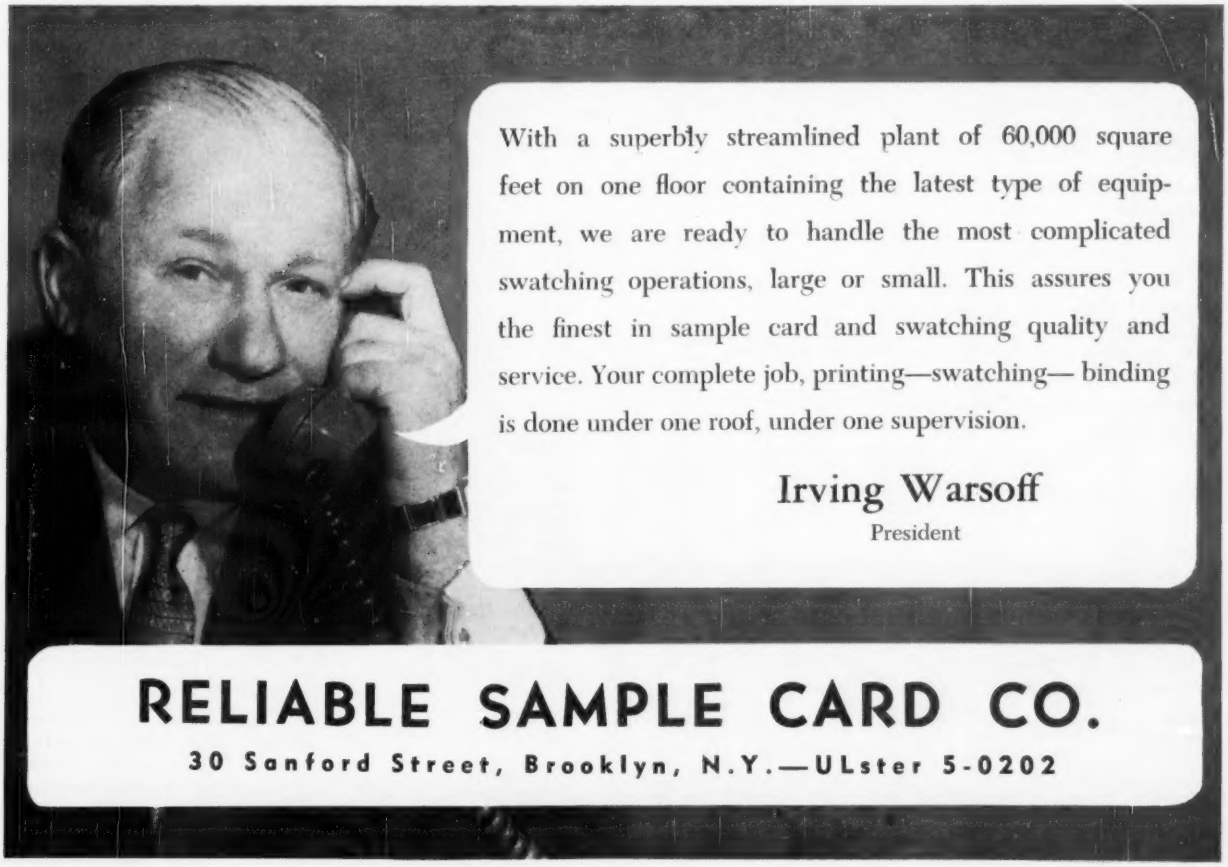

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Irving Warsoff
President

RELIABLE SAMPLE CARD CO.
30 Sanford Street, Brooklyn, N.Y.—ULster 5-0202

Tyrex

Tyrex Certified Viscose Tire Yarn

Denier	Filament	Twist	Beams	Cones
1100	720	Z	.62	.62
1650	1100	Z	.55	.55

Terms: Net 30 days f.o.b. point of shipment, title to pass to buyer on delivery of goods to carrier. Domestic transportation charges allowed at lowest published rate to all points in continental United States except Alaska.

PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE.

North American Rayon Corporation

Super Super High Strength

Continuous Yarn Type 710		Cones	Beams
1100/720	1.6Z	.62	.62
1650/720	2.0Z	.55	.55

Tire Cord Fabrics

Super Super High Strength Type 710	Rolls
1100/720	.74
1650/720	.64

Terms: Net 30 days, f.o.b. shipping point. Minimum freight allowed to consignee's nearest freight station East of the Mississippi River. To points West of the Mississippi River minimum freight to Memphis, Tenn. allowed. Goods after shipment shall be at buyer's risk. Merchandise transported in seller's own trucks or those of its affiliates is sold f.o.b. delivery point.

CELLULOSIC STAPLE & TOW

ACETATE

Celanese Corp. of America

Current Prices

Effective March 2, 1959

Staple

(Most Deniers Available in Bright or Dull Luster)

Celanese Acetate Staple	
3, 5.5 & 8 Denier (Regular Crimp, Type HC, Type D)	$.36
2, 12 & 17 Denier (Regular Crimp, Type HC, Type D)	.37
35 Denier	.38
50 Denier	.40
Type F—5.5 & 8 Denier	.35
Type F—12 & 17 Denier	.36
Type K—(Available under Celanese License Agreement)	.39
⅝" to ⅞" length (All Deniers)	.03 (Premium)
35 Denier Flat Filament Acetate	.40
Non-Textile Acetate Fibers	.29*

Tow (Celatow)

3, 5.5 & 8 Denier	$.37
2, 12 & 17 Denier	.38
35 Denier	.40
35 Denier Flat Filament Acetate Tow	.42
50 Denier	.42

Terms: Net 30 days. Transportation prepaid or allowed to any destination in U.S.A. east of Mississippi River. Transportation prepaid to any U.S.A. destination west of Mississippi River, but charge is made for the portion of transportation from river crossing nearest customer's location.

Prices subject to change without notice.

All previous prices withdrawn.

* No transportation allowed (F.O.B. shipping point.)

Note: Prices on unlisted items can be obtained upon request.

Orders are subject to conditions of sale appearing on our acknowledgments of orders.

CROSS-LINKED

Courtaulds (Alabama) Inc.

Effective April 14, 1959

Corval™

Man-made, cross-linked, cellulosic staple, Bright and Dull, 1½, 3 and 5½ denier ..... $.40 per lb.

Topel®

Man-made, cross-linked, cellulosic staple, Bright and Dull, 1½, 3 and 5½ denier ..... $.37 per lb.

Terms: Net 30 days f.o.b. LeMoyne, Alabama; Minimum transportation allowed to points in U.S.A. east of Mississippi River.

RAYON

American Viscose Corp.

Current Prices

Rayon Staple

	Bright and Dull
Regular	$ .33
"Viscose 22"	.33
Extra Strength 1.0 Denier	.36
"Avisco XL" 1.0 Denier	.42
"Avisco XL" 1.5 & 3.0 Deniers	.39
"Avisco Crimped" 1.25 Denier	.36
"Avisco Crimped" 3.0 & 5.5 Deniers	.34
"Avisco Crimped" 8.0 & 15.0 Deniers	.35
"Avisco Super L" 8.0, 15.0 & 22.0 Deniers	.36

COLORSPUN STAPLE

1.5 Denier 1 9/16"

Color	Code	Price
Sea Foam	517	47¢
Spun Gold	614	47¢
Cascade	419	42¢
Silver Gray	208	42¢
Bridal Rose	710	42¢
Rosewood	835	47¢
Bisque	803	42¢
Champagne	833	42¢
Sandalwood	802	42¢

3.0 Denier 2"

Mint Green	505	47¢
Pale Pink	708	42¢
Bisque	803	42¢
Sandalwood	802	42¢
Gold	603	47¢
Turquoise	408	42¢
Wine	304	59¢
Gray	208	42¢
Spice Brown	800	47¢

Rayon Tow

Grouped Continuous Filaments (200,000 Total Denier)

1.5, 3.0 & 5.5 Denier Per Filament ..... .35

9.0 Denier Per Filament ..... .37

Terms: Net 30 days.

American Enka Corp.

Current Prices Effective 7/1/59

Rayon Staple

Regular

	Brt.	Dull
1.5 and 3 denier	$ .33	$ .33

Crimped

6.5 denier	.34	....
8 denier	.35	....
15 denier	.35	.35

Celanese Corp. of America

Current Prices

Effective May 1, 1959

Rayon Tow

	Bright & Dull
1.5, 3, 5.5 D.P.F. Total denier 200,000	.35
8 D.P.F. Total denier 207,000	.37

Terms: Net 30 days. Transportation prepaid or allowed to any destination in U.S.A. East of Mississippi River. Transportation prepaid to any U.S.A. destination West of Mississippi River, but charge is made for the portion of transportation from river crossing nearest customer's location.

Prices subject to change without notice.

All previous prices withdrawn.

Note: Prices on unlisted items can be obtained upon request.

Orders are subject to conditions of sale appearing on our Acknowledgments of Orders.

Courtaulds (Alabama) Inc.

Effective April 14, 1959

Rayon Staple

	Bright	Dull
1½ and 3 denier	$.33	$.33
Available in 1⅛", 1-9/16" and 2".		

Crimped Rayon Staple

3 and 5½ denier	$.34	$.34
Available in 1-9/16" and 3".		
3 denier		.34
Available in 2".		

Coloray® Solution Dyed Rayon Staple

Color	Price per lb.
Black	39¢
Silver Grey	41¢
Mocha	41¢
Tan	41¢
Medium Brown	41¢
Aqua	42¢
Rose	42¢
Dawn Pink	42¢
Ecru	42¢
Dark Brown	42¢
Slate Grey	45¢
Sulphur	46¢
Nugget	46¢
Light Blue	46¢
Crystal Blue	47¢
Apple Green	47¢
Sage	47¢
Peacock Blue	48¢
Medium Blue	50¢
Indian Yellow	51¢
Dark Blue	51¢
Hunter Green	51¢
Turquoise	52¢
Malachite Green	53¢
Red	58¢

In addition to the above, Black is also available in:

1½ den. 1⅛" — 5½ den. 3"

3 den. 1⅛" — 5½ den. 6"

3 den. 1-9/16"

Terms: Net 30 days f.o.b. LeMoyne, Alabama: Minimum transportation allowed to points in U.S.A. east of Mississippi River.

The Hartford Fibres Co.

Div. Bigelow-Sanford Carpet Co., Inc

Rayon Staple

Effective November 3, 1958

REGULAR

1.5 denier Bright 1 9/16", 2" ..... .33

VISCALON 66 (Crimped)

8 denier 3" Bright ..... .35

15 denier 3" Bright ..... .35

15 denier 3" Dull ..... .35

"KOLORBON"—Solution Dyed Rayon Staple—3" and 6"

	8 Denier Bright	15 Denier Dull	15 Denier Bright
Cloud Grey	.46	.46	....
Sandalwood	.46	.46	....
Nutria	.46	.46	....
Sea Green	.46	.46	....
Mint Green	.46	.46	....
Champagne	.46	.46	....

Midnight Black	.46	....	.46
Gold	.49	.49	....
Turquoise	.46	.46	....
Melon	.49	.49	....
Capri Blue	.46	.46	....
Charcoal Grey	.46	.46	....
Coco	.47	.47	....
Sable	.48	....	.48
Tangerine	.66	....	.66
Chinese Red	.66	....	.66
Larkspur Blue	.46	.46	....
Royal Blue	.66	....	.66
Lemon Peel	.55	.55	....
Kelly Green	.55	.55	....
Bitter Green	.66	....	.66

Terms: Net 30 days. Prices are quoted f.o.b. shipping point, lowest cost of transportation allowed, or prepaid. To points West of the Mississippi, lowest cost of transportation allowed to the Mississippi River crossing.

North American Rayon Corporation

Current Prices

Rayon Staple

Super High Tenacity	Bright
No. 1 (Unshrunk)	
1, 1.5 & 3 deniers	.40
No. 2 (Preshrunk)	
1, 1.5 & 3 deniers	.40

Rayon Tow

High Tenacity	
2200 denier, 1.0 and 1.5 D/F	57.5
4400 denier, 1.0 and 1.5 D/F	47.5

TRIACETATE

Celanese Corp. of America

Current Prices

Effective June 7, 1957

(Most Deniers Available in Bright or Dull Luster)

Arnel Staple and Tow

Arnel Triacetate Staple	Bright & Dull
2.5 Individual Denier	$.55
5.0 Individual Denier	.55
Arnel Triacetate Tow	
2.5 Individual Denier 114,000 Total Denier	$.60
5.0 Individual Denier 90,000 Total Denier or 180,000 Total Denier	.60

Packaged on Ball Warps

Terms: Net 30 days. Transportation prepaid or allowed to any destination in U.S.A. east of Mississippi River. Transportation prepaid to any U.S.A. destination west of Mississippi River, but charge is made for the portion of transportation from river crossing nearest customer's location.

Prices subject to change without notice.

All previous prices withdrawn.

Note: Prices on unlisted items can be obtained upon request.

Orders are subject to conditions of sale appearing on our acknowledgments of orders.

NON CELLULOSIC YARN

NYLON

Allied Chemical Corporation

Caprolan®

Effective August 17, 1959

Denier	Filament	Turn/In.	Twist	Type**	Package	1st Grade Price/Lb.
200	16	1½	Z	B	Cone	$1.49
200	16	1½	Z	B	Beam	1.54
200	32	¾	Z	B	Bobbin	1.49
200	32	¾	Z	B	Beam	1.54
520	32	1	Z	B	Bobbin	1.39
520	32	1	Z	B	Beam	1.44
840	136	½	Z	HBT	Aluminum Tube	1.06
840	136	½	Z	HBT	Beams	1.06
1050	56	½	Z	HB	Aluminum Tube	1.15
1680	272	½	Z	HBT	Aluminum Tube	1.03
1680	272	½	Z	HBT	Beam	1.03
2100	112	½	Z	HB	Aluminum Tube	1.11
Heavy Yarn						
2100	408	0	O	HB	Paper Tube*	1.06
2500	408	0	O	HB	Paper Tube*	1.06
3360	544	0	O	HB	Paper Tube*	1.05
4200	680	0	O	HB	Paper Tube*	1.05
4200	224	0	O	HB	Paper Tube*	1.10
5000	816	0	O	HB	Paper Tube*	1.05
5800	952	0	O	HB	Paper Tube*	1.05
7500	1224	0	O	HB	Paper Tube*	1.04
10000	1632	0	O	HB	Paper Tube*	1.04
15000	2448	0	O	HB	Paper Tube*	1.04

Terms—Net 30 days.

Prices subject to change without notice.

All prices quoted F.O.B. Shipping Point.

Following are invoiced as a separate item.

Bobbins—45 cents each.

Aluminum Tubes—40 cents each.

Beams—$220.00 each.

Cradles for Beams—$53.00.

B—Bright.

H—High Tenacity.

T—Heat Stabilized.

* Paper Tubes non-returnable, no charge.

** Type is used to describe luster and tenacity

Minimum transportation charges allowed and prepaid in continental United States, excluding Alaska.

American Enka Corporation

Enka Nylon Yarn Prices

Effective August 19, 1958

Den/Fil	Twist	Luster	Type	Tenacity	Pkg.	Net Wt. Pkg.	Price/Pound Std.	Price/Pound Sub.
15 monofil	0.5Z	Semi-dull	9506	Normal	Pirn	2 lb.	5.25	5.00
15 monofil	0.5Z	Semi-dull	9506	Normal	Beam	....	5.36	....
15 monofil	0.5Z	Dull	9514	Normal	Pirn	2 lb.	5.30	5.05
15 monofil	0.5Z	Dull	9514	Normal	Beam	....	5.41	....
15/2	0.5Z	Semi-dull	9518	Normal	Pirn	1 lb.	7.37	6.70
18/2	0.5Z	Semi-dull	....	Normal	Pirn	....	6.65	6.10
20 monofil	0.5Z	Semi-dull	9524	Normal	Pirn	1 lb.	4.95	4.50
20/2	0.5Z	Semi-dull	9478	Normal	Pirn	1 lb.	5.55	5.05
30/4	0.5Z	Semi-dull	....	Normal	Pirn	....	2.62	2.42
30/6	0.5Z	Semi-dull	9464	Normal	Pirn	2 lb.	2.36	2.21
40/8	0.5Z	Semi-dull	9558	Normal	Pirn	2 lb.	2.01	1.91
40/8	0.5Z	Semi-dull	9558	Normal	Beam	....	2.11	....
40/10	0.5Z	Dull	9564	Normal	Pirn	2 lb.	2.06	1.96
40/10	0.5Z	Dull	9564	Normal	Beam	....	2.16	....
50/13	0.5Z	Semi-dull	9562	Normal	Pirn	2 lb.	1.91	1.76
70/32	0.5Z	Semi-dull	9251	Normal	Pirn	2 lb.	1.71	1.66
100/32	0.5Z	Semi-dull	9253	Normal	Pirn	2 lb.	1.65	1.60
200/16	0.6Z	Bright	9826	Normal	Cone	4 lb.	1.49	1.44
200/16	0.5Z	Bright	9826	Normal	Beam	....	1.54	....
200/34	0.6Z	Bright	9832	Normal	Cone	4 lb.	1.49	1.44
200/34	0.5Z	Bright	9832	Normal	Beam	....	1.54	....
260/16	0.6Z	Bright	9197	Normal	Cone	4 lb.	1.49	1.39
260/34	0.6Z	Bright	9197	Normal	Cone	4 lb.	1.49	1.39
520/32	0.6Z	Bright	9546	Normal	Cone	4 lb.	1.39	1.29

Pirns charged at $.25 or $.45 each, depending on type. Deposit refunded upon return of pirn in good condition. Cones are non-returnable. Beams and cradles are deposit carriers and remain property of American Enka Corporation.

Terms: Net 30 days. Minimum common carrier transportation charges will be prepaid and absorbed to the first destination in the continental United States. In prepaying transportation charges, the seller reserves the right to select the carrier used.

The Chemstrand Corp.

Current Prices Effective June 2, 1958

Denier	Filament	Twist	Type*	Package	Standard Price/Lb.	Second Price/Lb.
10	1	O	SD	Bobbins	$8.42	$7.81
15	1	O	SD	Bobbins	5.25	5.00
15	1	O	SD	Spools	5.36	....
15	1	O	D	Bobbins	5.30	5.00
15	1	O	D	Spools	5.41	....
20	7	Z	D	Bobbins	2.96	2.81
30	10	Z	SD	Bobbins	2.36	2.21
30	10	Z	D	Bobbins	2.41	2.21
30	10	Z	HSD	Bobbins	2.36	2.21
30	26	Z	SD	Bobbins	2.49	2.21
40	7	Z	SD	Bobbins	2.11	1.81
40	10	Z	SD	Bobbins	2.01	1.91
40	13	Z	SD	Bobbins	2.01	1.91
40	13	O	SD	Draw Wind	2.01	1.91
40	13	Z	SD	Spools	2.11	....
40	13	Z	D	Bobbins	2.06	1.96
40	13	Z	D	Spools	2.16	....
50	17	Z	SD	Bobbins	1.91	1.76
50	17	Z	SD	Draw Wind	1.91	1.76
70	34	Z	SD	Bobbins	1.71	1.66
70	34	O	SD	Draw Wind	1.71	1.66
70	34	Z	SD	Spools	1.81	....
70	34	Z	B	Bobbins	1.71	1.66
70	34	O	B	Draw Wind	1.71	1.66
70	34	Z	D	Bobbins	1.76	1.66
70	34	Z	D	Spools	1.86	....
70	34	Z	HB	Bobbins	1.76	1.66
80	26	Z	SD	Bobbins	1.71	1.60
100	34	Z	SD	Bobbins	1.65	1.60
100	34	Z	SD	Spools	1.75	....
100	34	Z	HB	Bobbins	1.70	1.60
140	68	Z	SD	Bobbins	1.60	1.55
140	68	Z	SD	Spools	1.70	....
140	68	Z	B	Bobbins	1.60	1.55
200	34	Z	B	Bobbins	1.49	1.44
200	34	O	B	Draw Wind	1.49	1.44
210	34	Z	HB	Bobbins	1.49	1.44
210	34	O	HB	Draw Wind	1.49	1.44
210	34	Z	HB	Spools	1.54	....
210	34	Z	HB	Beams	1.54	....
210	34	Z	RHB	Bobbins	1.59	1.54
260	17	Z	HB	Bobbins	1.49	1.39
260	17	Z	HB	Spools	1.54	....
420	68	Z	HB	Bobbins	1.39	1.29
520	34	Z	HB	Bobbins	1.39	1.29
630	102	Z	HB	Bobbins	1.39	1.29
780	51	Z	HB	Bobbins	1.39	1.29
840	140	Z	HB	Beams	1.06	1.01
840	140	Z	HB	Tubes	1.06	1.01
840	140	O	HB	Draw Wind	1.06	1.01
840	140	Z	RHB	Beams	1.06	1.01
840	140	Z	RHB	Tubes	1.06	1.01
840	140	Z	RHB	Cones	1.10	1.01
840	140	Z	Cordage Finish		1.04	....
840	140	Z	Textile Grade		1.12	1.01
840	140	Z	Paper Tubes		1.10	1.01
1040	68	Z	SD	Tubes	1.15	1.05
1040	68	Z	HB	Tubes	1.15	1.05
1040	68	Z	RSD		1.15	1.05
1050	170	Z	HB	Tubes	1.06	.96
1050	170	Z	RHB	Tubes	1.06	.96
1680	280	Z	RHB	Beams	1.03	.98
1680	280	Z	RHB	Tubes	1.03	.98
1680	280	Z	RHB	Cones	1.07	1.02
1680	280	Z	HB	Tubes	1.03	.98
2080	136	Z	SD	Tubes	1.11	1.01
2520	420	Z	RHB	Tubes	1.06	....
15120	2520	Z	RHB	Tubes	1.04	....
15120	2520	Z	RHB	Cordage Finish	1.07	....

* *Types*: D—Dull; SD—Semi-dull; B—Bright; H—High tenacity.

Bobbins are invoiced at 25¢ or 45¢ each, depending on type; tubes are invoiced at 40¢ each; spools invoiced at $77.00 and $95.00 depending on type; and beams and crates for beams are invoiced at $220 and $25 respectively.

Prices subject to change without notice.

Freight prepaid within Continental United States and Puerto Rico.

E. I. du Pont de Nemours & Co.

Textile Fibers Dept.

Current Prices

Nylon Yarn

Denier & Filament	Turns/Inch & Twist	Type	Package	1st Grade	2nd Grade
7-1	0	200	Bobbin	$9.47	$8.82

10-1	0	200	Bobbin	8.42	7.82
12-1	0	200	Bobbin	7.35	6.85
15-1	0	200	Beam	4.00	....
15-1	0	200	Bobbin	5.25	5.00
15-1	0	680	Beam	4.00	....
15-1	0	680	Bobbin	5.30	5.00
20-1	0	200	Bobbin	4.95	4.50
14-2	0.2Z	200	Bobbin	7.90	7.30
17-2	0.2Z	200	Bobbin	7.05	6.50
20-2	0.2Z	200	Bobbin	5.55	5.05
15-3	0.2Z	200	Bobbin	6.10	5.60
21-3	0.2Z	200	Bobbin	5.48	5.05
20-7	0.5Z	200	Bobbin	2.91	2.61
20-7	0.5Z	200	Beam	3.02	....
20-7	0.5Z	680	Bobbin	2.96	2.61
20-7	0.5Z	680	Beam	3.07	....
20-20	0.7Z	209	Bobbin	6.00	....
28-4	0.2Z	200	Bobbin	2.81	2.61
30-10	0.5Z	200	Bobbin	2.36	2.21
30-10	0.5Z	200	Tricot Bms.	2.46	....
30-10	0.5Z	300	Bobbin	2.51	2.36
30-10	0.5Z	680	Bobbin	2.41	2.21
30-10	0.5Z	680	Tricot Bms.	2.51	....
30-26	0.5Z	200	Bobbin	2.49	2.21
40-1	0	100	Bobbin	4.03	3.75
40-7	0.5Z	200	Bobbin	2.11	1.91
40-10	0.5Z	200	Bobbin	2.01	1.91
40-10	0.5Z	200	Tricot Beams	2.11	....
40-13	0.5Z	200	Bobbin	2.01	1.91
40-13	0.5Z	200	Tricot Bms.	2.11	....
40-13	0.5Z	400	Bobbin	2.13	1.90
40-13	0.5Z	680	Bobbin	2.06	1.96
40-13	0.5Z	680	Tricot Bms.	2.16	....
40-34	0.5Z	200	Bobbin	2.21	1.81
50-10	0.5Z	200	Bobbins	2.11	1.76
50-17	0.5Z	100/200	Bobbin	1.91	1.76
50-17	0	200	Tubes	1.91	1.76
50-17	0.5Z	680	Bobbin	2.01	1.76
60-20	0.5Z	200	Bobbin	1.82	1.65
60-34	0.5Z	300	Bobbin	1.86	1.76
70-17	0.5Z	200	Bobbin	1.71	1.66
70-34	0	100	Tubes	1.71	1.66
70-34	0.5Z	100/200	Bobbin	1.71	1.66
70-34	0	105/205	Paper Tube	1.71	1.66
70-34	0	200	Tubes	1.71	1.66
70-34	0.5Z	280	Bobbin	1.71	1.66
70-34	0.5Z	300	Bobbin	1.76	1.66
70-34	0.5Z	680	Bobbin	1.76	1.66
70-34	0	680	Tubes	1.76	1.66
80-26	0.5Z	200	Bobbin	1.71	1.60
90-26	0.5Z	200	Bobbin	1.76	1.66
100-34	0.5Z	200	Bobbin	1.65	1.60
100-34	0.5Z	300	Bobbin	1.70	1.60
100-34	0	300	Tubes	1.70	1.60
100-34	0.5Z	680	Bobbin	1.70	1.60
100-50	0.5Z	200	Bobbin	1.71	1.60
110-50	0.5Z	200	Bobbin	1.71	1.60
140-68	0.5Z	100	Bobbins	1.60	1.55
140-68	0	200	Tubes	1.60	1.55
140-68	0.5Z	200	Bobbin	1.60	1.55
140-68	0	205	Tube	1.60	1.55
140-68	0.5Z	300	Bobbin	1.65	1.55
200-20	1Z	100	Bobbin	1.49	1.44
200-34	0	100	Tubes	1.49	1.44
200-34	0.7Z	100	Bobbin	1.49	1.44
200-34	0	105	Tube	1.49	1.44
200-34	0.7Z	680	Bobbin	1.54	1.44
200-68	0.7Z	100/200	Bobbin	1.56	1.46
210-34	0	300	Tubes	1.49	1.44
210-34	0.7Z	300	Bobbin	1.49	1.44
210-34	0.7Z	300	Beam	1.54	....
210-34	0	305	Tube	1.49	1.44
210-34	0.7Z	330	Bobbin	1.59	1.44
260-17	1Z	300	Bobbin	1.49	1.39
400-68	0.7Z	100	Bobbin	1.39	1.29
420-68	1Z	300	Bobbin	1.39	1.29
420-68	1Z	300	Beams	1.44	....
520-34	1Z	300	Bobbin	1.39	1.29
630-102	0.7Z	300	Bobbin	1.39	1.29
780-51	1Z	300	Bobbin	1.39	1.29
800-140	0.5Z	100	Bobbin	1.39	1.29
840-140	0.5Z	300/700	Al. Tbs. & Beams	1.06	1.01
1680-280	0.5Z	300/700	Al. Tbs. & Beams	1.03	.98

Color-Sealed Yarn

Denier & Filament	Turns/Inch & Twist	Type	Package	1st Grade	2nd Grade
30-10	0.5Z	140	Bobbin	$2.71	$2.56
40-13	0.5Z	140	Bobbin	2.36	2.16
70-34	0.5Z	140	Bobbin	2.06	2.01
100-34	0.5Z	140	Bobbin	2.00	1.95
100-34	0	140	Tubes	2.00	1.95
200-20	0.7Z	140	Bobbin	1.84	1.79
200-34	0.7Z	140	Bobbin	1.84	1.79
260-17	1Z	140	Bobbin	1.84	1.79

Industrial Yarn

				Price/Lb.
840-140	0.5Z	*707	Cone	$1.04
5040-840	0	*707	Paper Tube	1.08
7560-1260	0	*707	Paper Tube	1.07
10080-1680	0	*707	Paper Tube	1.07
15120-2520	0	*707	Paper Tube	1.07
* Made specifically for cordage use.				
2520-420	0	700	Paper Tube	$1.06
4200-700	0	700	Paper Tube	1.05
5040-840	0	700	Paper Tube	1.05
7560-1260	0	700	Paper Tube	1.04
10080-1680	0	700	Paper Tube	1.04
15120-2520	0	700	Paper Tube	1.04

These prices are subject to change without notice. Terms: Net 30 Days.

Types

Type 100—Bright, normal tenacity.
Type 105—Bright, normal tenacity, low shrinkage (5-7%)
Type 140—Bright, color-sealed, black, normal tenacity.
Type 200—Semidull, normal tenacity.
Type 205—Semidull, normal tenacity, low shrinkage (5-7%)
Type 209—Semidull, normal tenacity, improved light durability and dye light fastness.
Type 280—Semidull, normal tenacity, improved light durability and dye light fastness.
Type 300—Bright, high tenacity.
Type 305—Bright, high tenacity, low shrinkage (5-7%)
Type 330—Bright, high tenacity, more heat & light resistant.
Type 400—Semidull, high tenacity.
Type 680—Dull, normal tenacity.
Type 700—Bright, high tenacity.
Type 707—Bright, high tenacity cordage yarn.

Freight Terms—Terms are F.O.B. shipping point, freight prepaid our route within the continental limits of the United States, excluding Alaska.

Following are invoiced as a separate item.
Bobbins—25 cents or 45 cents depending on type
Aluminum Tube—40¢ each
Draw Winder Tubes—$.70 or $1.00 depending on type
Tire Cord Beams—$220.00 each
Cradles for Tire Cord Beams—$115.00 each
Tricot Beams—$95.00 each
Cradles for Tricot Beams—$130.00 each
(Beams and Cradles are deposit carriers and remain the property of E. I. du Pont de Nemours & Co., Inc.)

POLYESTER

E. I. du Pont de Nemours & Co.

Textile Fibers Dept.

Current Prices

"Dacron"*

Denier & Filament	Turns/Inch	Luster	Type*	Tubes 1st Gr.
30-14	0	Bright	55	$2.71
30-20	0	Semidull	56	2.71
40-27	0	Semidull	56	2.31
40-27	0	Bright	55	2.31
40-27	0	Dull	57	2.36
70-34	0	Semidull	56	1.91
70-14	0	Bright	55	1.91
70-34	0	Bright	55	1.91
70-34	0	Dull	57	1.96
100-34	0	Semidull	56	1.84
140-28	0	Bright	55	1.79
150-34	0	Semidull	56	1.79
220-50	0	Bright	51	1.76
250-50	0	Bright	55	1.76
1100-250	0	Bright	51	1.50
1100-250	0	Bright	52	1.50

Terms: Net 30 days.

Domestic Freight Terms are F.O.B. shipping point, freight prepaid our route within the Continental limits of the U. S., excluding Alaska.

Yarn Types

* Type:
Type 51—Bright, high tenacity.
Type 52—Bright, high tenacity.
Type 55—Bright, normal tenacity.
Type 56—Semidull, normal tenacity.
Type 57—Dull, normal tenacity.

Tubes are invoiced as a separate item at $.70 each.

* "DACRON" is DuPont's registered trade-mark for its polyester fiber.

SARAN

The National Plastics Products Company—Fibers Division

Odenton, Maryland

41 East 42 Street, New York 17, N. Y. (Oxford 7-8996)

Current Prices:

CONTINUOUS FILAMENT

Type	Twist p. i.	Natural	Colors
1240/10	3	$1.32	$1.37
750/20*	3	1.75	1.80

* For filter fabrics and other industrial purposes only.

F.O.B. Odenton, Maryland.

Terms: Net 30 days.

NON CELLULOSIC STAPLE & TOW

ACRYLIC

American Cyanamid Co.

Fibers Division

Effective Date: November 24, 1959

Cyanamid Acrylic Staple

	1st Grade Price (per pound)
2.0 Denier Bright and Semi-Dull	$1.28
3.0 Denier Bright and Semi-Dull	1.18
5.0 Denier Bright and Semi-Dull	1.18
15.0 Denier Bright, Semi-Dull and Dull	.93

Staple Lengths: 1½", 2" 2½", 3", 3½", 4", 4½".

Information provided on request for Deniers, Lengths and Lusters not listed above.

Prices are subject to change without notice.

Terms: Net 30 Days.

F.O.B. Shipping Point—Minimum transportation allowed (Seller's route and method) within the continental limits of the United States excluding Alaska. If Buyer requests and Seller agrees to a route or method involving higher than minimum rate, Buyer shall pay the excess transportation cost.

Note: CRESLAN® is Cyanamid's registered trademark for certain of its acrylic fibers. Use of this trademark is authorized only on properly constructed fabrics, after they have been tested and approved by Cyanamid.

The Chemstrand Corp.

Current Prices

"Acrilan"*

Effective January 1, 1959

	Acrilan	Acrilan 16
2.0 denier Semi-Dull and Bright staple & tow	$1.24	$1.24
2.5 denier Hi-Bulk Bright and Semi-dull staple and tow	1.18	1.18

(Continued from Page 55)

Lucius Collins has been appointed manager of the New York consulting service for the dyeing and finishing trade of Du Pont's Dyes and Chemicals Division. He succeeds **Samuel A. Pettus** who has resigned.

John W. Brownley

John W. Brownley has joined Industrial Rayon Corp. as assistant to the vice president and general manager. He comes to the company from Industrias Consolidadas de Matanzas, a major rayon producer in Cuba.

Kenneth K. Karns has been appointed managing director of Dayton Rubber Co.'s plant in Dundee, Scotland.

Howard N. Smith

Howard N. Smith, textile technologist, has joined the staff of United States Testing Co., Inc.

T. R. Scott, Jr.

T. R. Scott, Jr. has been appointed product development manager at American Enka Corp.

Deaths

John J. Connorton, 54, wool buyer and merchandise manager, spun synthetics division, American Thread Co.

Warren Shenk, 43, sales engineer, Scott & Williams, Inc.

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Your creations deserve the color brilliance and permanence that Globe package-dyed yarns can provide. Let Globe provide that "seasons ahead" look.
Globe does package dyeing on tubes, skein and warp dyeing, warp bleaching and sizing.
Yarns we process include cotton, worsted, linen, blend and novelty yarns, and all synthetics — including Creslan®, Orlon®, Arnel® and Zefran®.
1865
Globe DYE WORKS CO
1959
4500 WORTH ST. PHILADELPHIA 24, PA
JEfferson 5-3307

3.0 denier Bright & Semi-dull staple & tow	1.18	1.18
5.0 denier Bright & Semi-dull staple & tow	1.18	1.18
8.0 denier Bright & Semi-dull staple	1.18	1.18
15.0 denier Bright & Semi-dull staple	.93	.97

Terms: Net 30 days. Freight prepaid within Continental U. S. & Puerto Rico.

• "Acrilan" is Chemstrand's registered trademark for its acrylic fiber.

The Dow Chemical Company

Textile Fibers Department

Current Prices

"Zefran"*

2.0 denier Semidull & Bright—Staple only	$1.28
3.0 denier Semidull & Bright—Staple only	1.28
6.0 denier Semidull & Bright—Staple only	1.18

Terms: Net 30 days.

Transportation Terms: F.O.B. shipping point—Freight prepaid our route within the continental limits of the U. S., excluding Alaska.

• "Zefran is Dow's registered trademark for its acrylic fiber.

E. I. du Pont de Nemours & Co.

Textile Fibers Dept.

Current Prices

"Orlon"** Acrylic Staple & Tow

Type 42	Staple Length	Tow Blds.	1st Grade
1.0 Denier Semidull	1¼, 1½, 2, 2½, 3	420M	$1.28
2.0 Denier Semidull & Bright	1¼, 1½, 2, 2½, 3, 4½	470M	1.28
3.0 Denier Semidull & Bright	1¼, 1½, 2, 2½, 3, 4½	470M	1.28
3.0 Denier Semidull Color-sealed Black	1¼, 1½, 2, 2½, 3, 4½	470M	1.63
6.0 Denier Semidull & Bright	1½, 2, 2½, 3, 4½	470M	1.18
6.0 Denier Color-sealed Black	1½, 2, 2½, 3, 4½	470M	1.55
4.5 Denier Semidull	1½, 2, 2½, 3, 4½	470M	1.18
10.0 Denier Semidull & Bright	1½, 2, 2½, 3, 4½	470M	1.18

Tow—Total Denier 470,000

Staple Lengths—1½", 2", 2½", 3", 4½"

High Shrinkage Staple price as Regular Staple

Type 25 $1.18

This product is designed for *Cotton/Rayon System* Spinning and is 2.5 denier, 1½" semidull regular shrinkage staple.

Type 38—4.1 Denier—Semidull—520M Tow $1.18

This product can be dyed, stretched and cut to produce staple which will shrink as much as 38% when subjected to heat.

Type 39 $.94

This product is designed for *woolen system spinning* and is a blend of deniers (average 4.2) with a variable cut length.

Type 39A $.99

This product is designed for *woolen system spinning* and is a blend of predominately fine deniers (average 2.4) with a variable cut length.

Type 39B $.94

This product is designed for *woolen system spinning* and is a blend of predominately heavy deniers (average 6.5) with a variable cut length.

F.O.B. Shipping Point—Freight prepaid our route within the continental limits of the United States, excluding Alaska.

MODACRYLIC

Eastman Chemical Products, Inc.
Tennessee Eastman Co.

Effective November 3, 1958

"Verel"* Staple and Tow

Deniers	Dull and Bright
2 and 3	$1.02 per pound
5, 8, 12, 16, and 20	.92
24 denier	.97

Prices are subject to change without notice.

Terms: Net 30 days. Payment—U. S. A. dollars.

Transportation charges prepaid or allowed to destination in continental United States, except Alaska. Seller reserves right to select route and method of shipment. If Buyer requests and Seller agrees to a route or method involving higher than lowest rate Buyer shall pay the excess of transportation cost and tax.

• "Verel" is a trade-mark of the Eastman Kodak Co

Union Carbide Chemicals Co.

Div. Union Carbide Corp.

Textile Fibers Dept.

Effective October 1, 1957

Dynel Staple & Tow

Natural Dynel	
3, 6, and 12 Denier, Staple and Tow	1.10 per lb.
24 Denier, Staple and Tow	1.05 per lb.
Dynel Spun with Light Colors:	
Blond, Pewter, or Gray	
3 and 6 Denier, Staple and Tow	1.30 per lb.
Dynel Spun with Dark Colors:	
Black, Charcoal, Brown, Caramel, Green, and Blue	
3 and 6 Denier, Staple and Tow	1.40 per lb.
Dynel Type 63 High Shrinkage (3 Denier only)	Add $.05 per lb. to above prices

Prices are quoted f.o.b. South Charleston, W. Va.

NYLON

American Enka Corp.

Effective August 19, 1958

Enka Nylon (Nylon Six Staple)

Denier	Luster	Length (Inches)	Price per pound
3	semi-dull	1⅛, 1½, 2, 2⅝, 3, 4½	$1.28
6	bright	3, 4½	1.28
8	bright	2⅝	1.15
10	bright	3	1.08
15	bright	3	1.08
15	semi-dull	3	1.08

Deniers and lengths of staple not listed above are available upon special request.

Terms: Net 30 days. Minimum common carrier transportation charges will be prepaid and absorbed to the first destination in the continental United States. In prepaying transportation charges, the seller reserves the right to select the carrier used.

E. I. du Pont de Nemours & Co.

Textile Fibers Dept.

Current Prices

Nylon Staple and Tow

Denier	Type	Staple Lengths	Tow Bundle	1st. Grade Price/Lb.	2nd Grade Staple Only
1.5	200	1⅛"—4½"	None made	$1.33	$1.18
1.5	201	1⅛"—4½"	None made	1.35	1.20
2.2	420	1½" only	None made	1.28	1.13
3.0	100/200	1⅛"—4½"	430M	1.28	1.13
3.0	101/201	1¼"—4½"	455M	1.30	1.15
6.0	100	1½"—6½"	330M	1.28	1.13
6.0	101	1½"—6½"	345M	1.30	1.15
15.0	100	1½"—6½"	425M	1.08	....
15.0	101	1½"—6½"	None made	1.10	....
15.0	600	1½"—6½"	425M	1.10	....
15.0	601	1½"—6½"	None made	1.12	....

Staple lengths are restricted to the range shown opposite each denier above. The actual cut lengths within these ranges are as follows:

1⅛, 1½, 2, 2½, 3, 4½ and 6½

Types

Type 100 Bright, normal tenacity, not heatset.
Type 101 Bright, normal tenacity, heatset.
Type 200 Semidull, normal tenacity, not heatset.
Type 201 Semidull, normal tenacity, heatset
Type 420 Semidull, high tenacity, high modulus, no crimp.
Type 600 Dull normal tenacity, not heatset.
Type 601 Dull normal tenacity, heatset.
These prices are subject to changes without notice.
Terms—Net 30 Days.

Freight Terms—Terms are F.O.B. shipping point, freight prepaid our route within the continental limits of the United States, excluding Alaska.

Industrial Rayon Corp.

Effective August 18, 1958

Nylon Staple

1.5 denier	$1.33 per lb.
2, 3 and 6 denier	1.28 per lb.
8 denier	1.15 per lb.
15 and 22 denier	1.08 per lb.

Bright, semi-dull, and full-dull. Required lengths.

NYTRIL

B. F. Goodrich Chemical Co.
A division of The B. F. Goodrich Co.

DARVAN

Effective Nov. 21, 1958

Type	Price Per Pound Net Crimp Set	Crimp Set
3, 4½ and 6 Denier	$1.45	$1.50
1½, 2 Denier	$1.50	$1.55

Pack in 100 Lb. Bales, Net
Staple lengths 1½, 2, 3, 4½
Tow—90,000 Total Denier
Bright, Semi-dull, Dull

(Deniers and lengths of staple not listed above are available upon special request.)

Terms: Net 30 Days.

F.O.B. Shipping Point (Avon Lake, Ohio) Minimum freight prepaid our route to points east of the Mississippi River within the continental limits of the United States, for points west of the Mississippi River freight allowed to the Mississippi River crossing nearest purchaser's mill if overland, or port of exit of purchaser's choice east of the Mississippi River.

POLYESTER

Beaunit Mills Inc.

Vycron Polyester

Effective: November 20, 1959

	Denier		Price Per Lb.
Staple	1.5		$1.36
	3.0		1.36
Staple Cuts are 1½", 2", 3", and 4".			
Tow for Converters	1.5		1.36
(Tow Bundle 200,000 Denier)	3.0		1.36
	1 Den.	1.5 Den.	3 Den.	
Tow Yarn for Direct Spinners and Coarse Denier Yarns		420/280	420/140	1.65
		840/560	840/280	1.60
	1120/1120			1.49
No Twist Tubes		1260/840	1260/420	1.36
		1680/1120	1680/560	1.36
	2240/2240			1.45
		3360/2240	3360/1120	1.36

Terms: Net 30 days, F.O.B. shipping point. Minimum freight allowed to consignee's nearest freight station east of the Mississippi River. To points west of the Mississippi River minimum freight to Memphis, Tenn. allowed. Goods after shipment shall be at buyer's risk. Merchandise transported in seller's own trucks or those of its affiliates is sold F.O.B. delivery point. Prices subject to change without further notice.

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New Methylamine Plant

A new plant to make methylamines, basic chemicals used in manufacturing argicultural chemicals, rocket propellants, textiles fibers and dyes, rubber chemicals and pharmaceuticals, will be built by Du Pont at Belle, W. Va. The new plant, which will more than double the firm's methylamine capacity, will turn out dimethylamine (DMA), used principally in the manufacture of Orlon acrylic fiber and as a solvent for vinyl resins in lacquers, films and printing inks. Prices for methylamines have been on a downward trend, according to Du Pont. DMA currently is quoted at 28 cents a pound, compared to 85 cents in 1945.

New Goodrich Unit

A cross-linking of diversified chemical product lines into a marketing and development unit designed to increase its business in the $400 million textile chemical market has been announced by B. F. Goodrich Chemical Co. H. B. Warner, vice president-marketing, said the move makes the company "the only supplier in the industry to offer to the textile finishing and converting trade such a broad range of chemicals for use in upgrading fabrics and improving textile manufacturing processing."

At a recent week-long trade show in New York, Goodrich displayed and demonstrated products and processes for improving such physical properties of fabrics as wear-resistance, color fastness, hand and drape, stretch control, shrinkage control, ravel-resistance and textile printing and coating.

ATMA

Parade of Progress

American Textile Machinery Exhibition – International
May 23-27, 1960

Mills Buy Japanese Frames

Recent sales of Japanese OM-S sliver-to-yarn spinning frames and accessory equipment have been announced by Edward S. Rudnick, Representatives, for O-M Spinning Machine Manufacturing Co., Osaka.

Long Shoals Cotton Mills, Lincolnton, N. C., has ordered 24 OM-S spinning frames, 360 spindles per frame; and for delivery to its Massapoag plant, 32 O-M drawing frames with automatic can changers.

Scheduled for January shipment from Japan is an initial OM-S spinning and drawing frame for use by Cone Mills at its White Oak plant in Greensboro, S. C. Additional purchases of OM-S equipment have been made by Joanna Mills and Bear Brand Hosiery Co.

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Coarse Denier Yarns, No-Twist Tubes

1.5 Denier	3.0 Denier	
420/280	420/140	1.65
840/560	840/280	1.60
1260/840	1260/420	1.50
1680/1120	1680/560	1.45
3360/2240	3360/1120	1.36

E. I. du Pont de Nemours & Co.

Textile Fibers Dept.

Current Prices

"Dacron"* Staple and Tow

Denier	Luster	Type*	Length	Tow Bundle	1st Gr.
1.25	Semidull	54	1¼"-3"	None made	$1.36
1.5	Semidull	64	Tow only	550M	1.41
1.5	Semidull	54	1¼"-3" & Tow	550M	1.36
3.0	Semidull	64	1¼"-4½" & Tow	450M	1.41
3.0	Semidull	54	1¼"-4½" & Tow	450M	1.36
3.0	Semidull	61	1¼"-4½"	None made	1.36
4.5	Semidull	64	1¼"-4½" & Tow	450M	1.36
4.5	Semidull	54	1¼"-4½" & Tow	450M	1.31
6.0	Semidull	64	1¼"-4½" & Tow	450M	1.36
6.0	Semidull	54	1¼"-4½" & Tow	450M	1.31
6.0	Semidull	61	1¼"-4½"	None made	1.31

* Type:
Type 54—Semidull, Normal Tenacity.
Type 61—Round Cross-section Industrial Staple having 45% Boil-off Shrinkage.
Type 64—More Pill Resistant Staple, with Greater Dyeing Versatility.

F. O. B. Shipping Point—Freight prepaid our route within the continental limits of the United States, excluding Alaska.

Eastman Chemical Products, Inc.

Tennessee Eastman Co. Effective September 15, 1958

"Kodel"*

1½ denier	$1.60
3 and 4½ denier	1.50

Terms: Net 30 days. Payment—U. S. A. dollars.

Transportation charges prepaid or allowed to destination in continental United States, except Alaska. Seller reserves right to select route and method of shipment. If Buyer requests and Seller agrees to a route or method involving higher than lowest rate Buyer shall pay the excess of transportation cost and tax.

* "Kodel" is a trade-mark of the Eastman Kodak Company.

VINYON

American Viscose Corp. Effective October 1, 1956

Avisco Vinyon Staple

3.0 denier ½" unopened	$.80 per lb.
3.0 " 1¼" unopened	.80 per lb.
3.0 " 1¼" opened	.90 per lb.
3.0 " 2" opened	.90 per lb.
3.0 " 2" unopened	.80 per lb.
5.5 " 1" opened	.90 per lb.
5.5 " 3½" opened	.90 per lb.
5.5 " 3½" unopened	.80 per lb.

Terms: Net 30 days.

SARAN

The National Plastics Products Company—Fibers Division
Odenton, Maryland

Current Prices: Saran Staple

Type	Denier	Natural	Colors
2N—Upholstery	22	$0.70	$0.75
2N—Upholstery	16	.74	.79
3Q—Industrial Fabrics	22	.68	.72
1C—Carpets	22	.68	.72
1M—Mops	22	.68	.72

In any staple length 1½ to 6". Also 45 denier, 7" cut.
F.O.B. Odenton, Maryland.
Terms: net 30 days.

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A manufacturer of synthetic yarns has attractive opening for a technically trained man possessing knowledge and experience in technical lay-out, writing and editing. Applicant should have knowledge of technical trade and industrial publishing houses and should have experience in organizing fact-gathering job for technical publications. Textile background preferred.

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Saco-Lowell Named Agent

Saco-Lowell Shops, Boston, Mass., has been appointed exclusive agent in the United States and all foreign countries to sell and service Hartford Spindles made by Hartford Machine Screw Co. division. Saco-Lowell's textile sales department will feature a complete line of spinning filling and warp spindles and twister spindles to be known as Saco-Lowell Hartford Spindles. Saco-Lowell also has been named a U. S. and foreign agent to sell and service spinning and roving drafting equipment produced by Machinecraft Inc. Cotton-McCauley and Co., Inc., also will continue to sell and service Machinecraft's line.

Saco-Lowell recently reported its first profitable quarter in more than two years. Thomas J. Ault, president, said the company's backlog "continues to be satisfactory" and that deliveries, a major problem due to the company's relocation program, "are steadily improving but we are still about six weeks behind our schedule."

the SIMCO company
920 Walnut Street, Lansdale, Pa.

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Exclusively for Business, Laboratory and Mill Services; Positions and Men Wanted; Business Opportunities; Mill Properties Wanted or For Sale; Reconditioned Machinery and Equipment, etc.

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Modern Textiles Magazine, 303 Fifth Avenue, New York 16, N.Y.

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Graduates of textile school for technical service work in knitted outerwear, hosiery or tricot fields. Should have two or three years experience in the merchandising of above fields with a sound background in knitting and textile technology. Extensive travel primarily on Eastern Seaboard from central Middle Atlantic location. Salary commensurate with experience and education. Practical experience considered in lieu of education.

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Textile Fibers Department

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THE DOW CHEMICAL COMPANY
Williamsburg, Virginia

OPPORTUNITY

"New Orlon and Banlon factory located in Colombia (S. America) needs production man. Must have full knowledge of cutting, sewing, finishing and styling operations for women's, children's and men's Orlon and Banlon wear. This is an executive position and will have excellent salary and living conditions. Please submit detailed resume of experience, salary desire, etc., to: J. Morris c/o Intra-Mar Shipping Corp., 42 Stone Street, New York 4, N.Y.

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Calendar of Coming Events

Jan. 6—AATT monthly meeting. Della Robbia Room, Hotel Vanderbilt, New York, N. Y.
Jan. 15—AATCC Northern New England Section, joint symposium with ASME Textile Engineering Div. Smith House, Cambridge, Mass.
Jan. 25-28—Plant Maintenance & Engineering Show. Convention Hall, Philadelphia, Pa.
Feb. 2-4—SPI Reinforced Plastics Division conference. Edgewater Beach Hotel, Chicago, Ill.
Feb. 3—AATT monthly meeting. Della Robbia Room, Hotel Vanderbilt, New York, N. Y.
Feb. 8-9—National Cotton Council annual convention. Dallas, Texas.
Feb. 18-19—American Society for Quality Control, Textile Div. annual conference. Clemson House, Clemson, S. C.
Mar. 1-4—ASTM Committee D-13 spring meeting. Sheraton-Atlantic Hotel (formerly Sherton-McAlpin) New York, N. Y.
Mar. 2—AATT monthly meeting. Della Robbia Room, Hotel Vanderbilt, New York, N. Y.
Mar. 10-11—Fiber Society spring meeting. Roosevelt Hotel, New Orleans, La.
Apr. 6—AATT monthly meeting. Della Robbia Room, Hotel Vanderbilt, New York, N. Y.
Apr. 7-9—American Cotton Manufacturers Institute annual convention. American Hotel, Bar Harbor, Fla.
Apr. 20-22—Alabama Textile Manufacturers Association, annual meeting. Buena Vista Hotel, Biloxi, Miss.
Apr. 21-24—National Association of Hosiery Manufacturers annual meeting. Americana Hotel, Miami Beach, Fla.
Apr. 22—Textile Institute, annual general meeting. Midland Hotel, Manchester, England.
Apr. 26—Institute of Textile Technology, Charlotteville, Va. Meetings of Technical Advisory Committee and Board of Trustees.
Apr. 28-30—Phi Psi National Textile Fraternity 57th annual convention. Hotel Roosevelt, New York, N. Y.
Apr. 29—Underwear Institute annual meeting. Hotel Biltmore, New York, N. Y.
May 4—AATT monthly meeting. Della Robbia Room, Hotel Vanderbilt, New York, N. Y.
May 19-21—Georgia Textile Manufacturers Association, anniversary meeting. Diplomat Hotel and Country Club, Hollywood, Fla.
May 23-27—American Textile Machinery Exhibition. Auditorium, Atlantic City, N. J.
May 25-28—Tufted Textile Manufacturers Association annual convention. Fontainebleau Hotel, Miami Beach, Fla.
May 31-Jun. 2—Cotton Research Clinic. Grove Park Inn, Asheville, N. C.
Jun. 1—AATT monthly meeting. Della Robbia Room, Hotel Vanderbilt, New York, N. Y.
Jun. 23-25—Southern Textile Association annual convention. Grove Park Inn, Asheville, N. C.
Jun. 26-Jul. 1—ASTM annual meeting. Chalfonte-Haddon Hall, Atlantic City, N. J.
Sep. 7-8—Combed Yarn Spinners Association annual meeting. Greenbrier, White Sulphur Springs, W. Va.
Sep. 27-28—Chemical Finishing Conference, sponsored by National Cotton Council. Statler Hotel, Washington, D. C.
Oct. 3-7—Southern Textile Exposition. Textile Hall, Greenville, S. C.
Oct. 6-8—AATCC national convention. Sheraton Hotel, Philadelphia, Pa.
Oct. 5-8—Carded Yarn Association annual meeting. Grove Park Inn, Asheville, N. C.
Oct. 18-21—ASTM Committee D-13, fall meeting. Sheraton-Atlantic, New York, N. Y.

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